



Reptiles in - volent

<i>Cnemidophorus</i>	1	1
<i>Crotalus</i>	2-5	6
<i>Dipsosaurus</i>	3	30
<i>Phrynosoma</i>	2-3	8
<i>Phrynosoma m'calli</i>	4-7	2
<i>Phrynosoma</i>	5-1	5
<i>Sceloporus</i>	6-6	
<i>Sceloporus magister</i>	8-10	8
<i>Sceloporus occidentalis</i>	8-10	1
<i>Sceloporus</i>	8-15	4
<i>Uma</i>	5-10	12
<i>U. notata</i>	1-2	12
<i>U. scoparia</i>	2-4	2
<i>Urosaurus</i>	5-4	12
<i>Uta</i>	2-6	

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CALLISAURUS
DRACONOIDES

CALLISAURUS DRACONOIDES
TOTAL COLLECTED

<u>MONTH</u>	<u>IMM.</u>			<u>AD.</u>			
	♂	♀	TOTAL	♂	♀	TOTAL	
JAN	-	-	-	-	-	-	
FEB	-	-	-	-	-	-	
MAR	4	-	4	5	1	6	
APR	9	4	13	12	11	23	
MAY	3	8	11	40	24	64	
JUN	2	4	6	4	4	8	
JUL	5	6	11	10	15	25	
AUG	3	3	6	25	20	45	
SEP	3	6	9	9	3	12	
OCT	3	1	4	3	-	3	
NOV	-	-	-	-	-	-	
DEC	-	-	-	-	-	-	
	32	32	64	108	78	186	TOTALS

MALEENLARGED TESTIS ($> 40 \text{ mm}^3$)

1959 4/25 - 8/19
1960 3/21 - 8/10
1961 5/14 - 8/21
1962 5/5 - 7/19
3/21 - 8/22 (63) OK

CONVOLUTED EPIDIDYMIIS

1959 4/25 - 8/31
1960 4/12 - 7/9
1961 4/14 - 8/21
1962 5/5 - 8/4
4/11 (64) - 7/9 OK

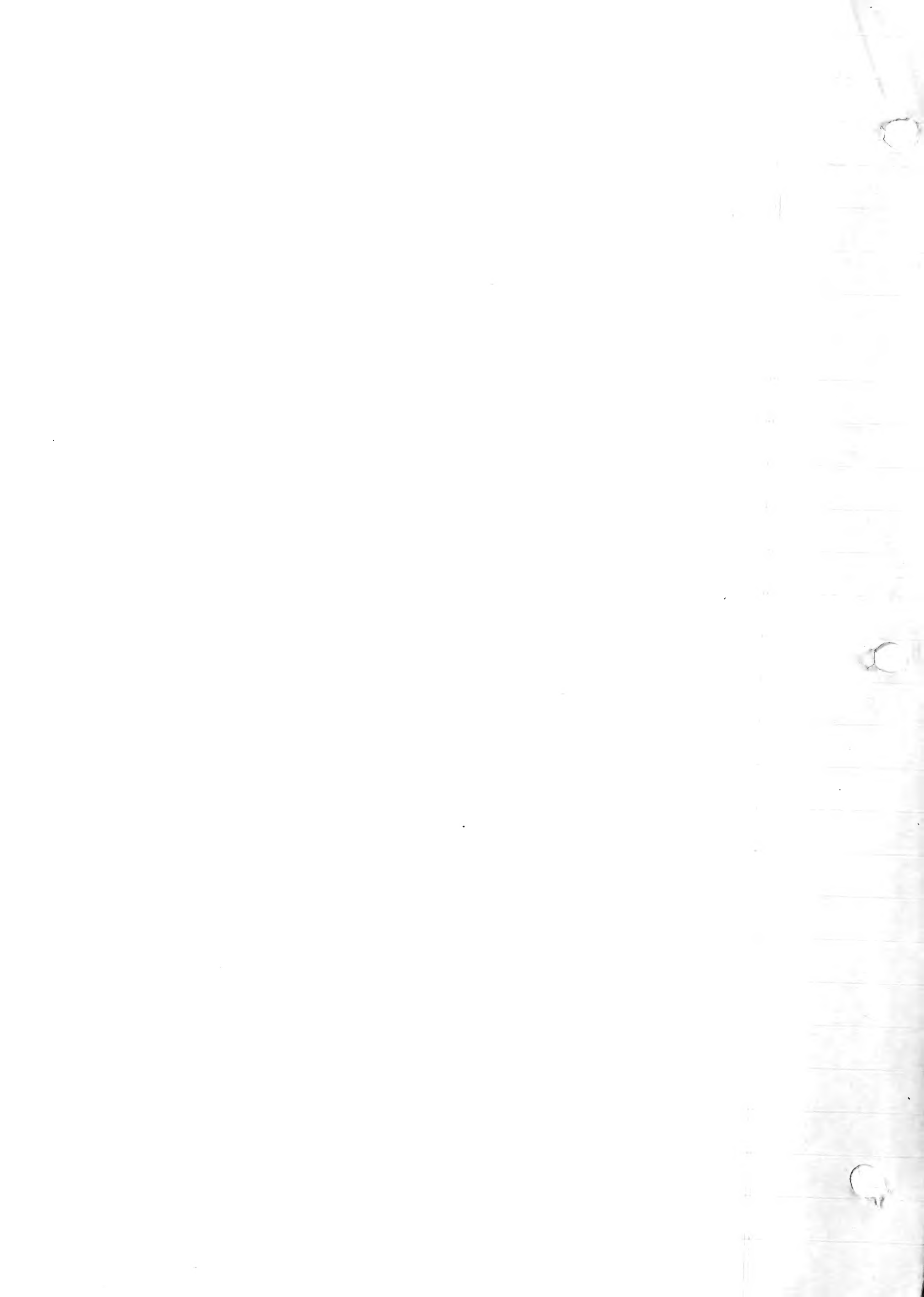
MOTILE SPERM

1959 8/19 - 8/31
1960 4/12 - 7/9
1961 4/14 - 8/21
1962 5/5 - 8/4
4/11 (64) - 7/9 OK

FEMALE

OVA ACCUMULATED YOLK

1959 8/19
1960 4/13 - 8/10
1961 8/12 - 8/13
1962 4/14 - 7/19
4/11 (64) - 8/19 OK



C. C. (1959)

EXCHANGE - 1959

1959 8.19
1960 4/12 - 8.10
1961 8.12 - 8.11
1962 4/1 - 8.1

1963 10.1 - 10.1

CONVERTED CREDIT

1959 8.12 - 10.1
1960 10.1 - 10.1
1961 8.12 - 10.1
1962 4/14 - 8.11
1963 10.1 - 10.1

EXCHANGE - 1960

1960 8.12
1961 8.12
1962 8.12

1963 10.1 - 10.1

EXCHANGE - 1961

1961 8.12 - 10.1
1962 10.1 - 10.1
1963 10.1 - 10.1
1964 10.1 - 10.1

Potentially Breeding *Callisaurus draconoides* → (70+mm, - - V)

(smallest ♂ = 58mm)
(largest ♂ = 102")

Totals, 1955-1961

Date	# ♂	No ♀	Total	% ♂
Sept. '58	0	5	5	0
Mar. '59	0	1	1	0
Apr.	0	1	1	0
May	0	1	1	0
June			0	
July			0	
Aug.	4	0	4	100
Sept.	0	2	2	0
Oct.	0	2	2	0
Mar. '60	0	3	3	0
Apr.	6	0	6	100
May	13	0	13	100
June	3	0	3	100
July	3	1	4	75
Aug.	7	0	7	100
Sept.	1	0	1	100
Mar. '61	0	1	1	0
Apr.	1	2	3	33
May	1	3	4	25
June	0	1	1	0
July			0	
Aug.	1	0	1	100
Sept.			0	
Oct.	0	1	1	0
May '62	11	6	17	65
Jul.	5	1	6	83
Aug.	2	5	7	30
Apr. '63	0	1	1	0
May	2	4	6	33
Aug.	0	1	1	0

Month	# ♂	No ♀	Total	% ♂
Mar.	0	5	5	0
Apr.	7	3	10	70
May	14	4	18	78
June	3	0	4	75
July	3	0	4	75
Aug.	12	0	12	100
Sept.	1	7	8	12
Oct.	0	3	3	0
Total			64	

Potentially Breeding Calisaurus draconoides ♂♂ (70⁺mm, S-V)

<u>Date</u>	<u>#♂</u>	<u>No♀</u>	<u>Total</u>	<u>%♂</u>
Sep-63	1	0	1	100
Apr. '64	2	0	2	100

Totals, 1958-1963

<u>Month</u>	<u>#♂</u>	<u>No♀</u>	<u>Total</u>	<u>%♂</u>
Mar	0	5	5	0
Apr	7	4	11	64
May	27	14	41	66
Jun	3	0	4	75
Jul	8	1	9	89
Aug	¹⁵ 14	6	²¹ 20	⁷¹ 70
Sep	2	7	9	22
Oct	0	3	<u>3</u>	0
Total			102	

Callisaurus draconoides - (70+mm, S-V) -

Left Testis Volume - Average by Months - 1958-1963.

Month	Σx	N	\bar{x}
Mar.	134	5	26.8
Apr.	805	10	80.5
May	3601	41	87.8
Jun	176	4	44.0
Jul.	646	10	64.6
Aug.	597 763	19 18	47.2 42.4
Sep.	178	9	19.8
Oct.	23	3	7.7

Callisaurus draconoides Testis Volumes (70⁺mm S-V)

1958
Left Testis

SEPT

31

16

32

20

33

TOTAL VOL 132

MEAN 26.4

RANGE 16-33

NO. LIZARDS 5

Right Testis

SEPT

28

16

14

16

32

TOTAL VOL 106

MEAN 21.2

RANGE 14-32

NO. LIZARDS 5

Callisaurus draconoides Testis Volumes (70+mm S-V)

1959

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
6	42	30	—	—	73	3	7
					104	8	8
					13		

TOTAL VOL	6	42	30	0	0	190	11	15
MEAN	6	42	30	0	0	63.3	5.5	7.5
RANGE	—	—	—	0	0	13-104	3-8	7-8
NO. LIZARDS	1	1	1	0	0	3	2	2

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
8	38	29	—	—	59	3	6
					77	8	9
					13		

TOTAL VOL	8	38	29	0	0	149	11	15
MEAN	8	38	29	0	0	49.7	5.5	7.5
RANGE	—	—	—	0	0	13-77	3-8	6-9
NO. LIZARDS	1	1	1	0	0	3	2	2

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Callisaurus draconoides Testis Volumes (70+mm S-V)

1960
Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
24	158	72	91	65	94	27
24	238	55	25	45	63	
42	88	15	57	75	34	
	91	119		82	47	
	72	101			77	
		137			21	
		134			27	
		168				
		101				
		171				
		130				
		113				
		135				

TOTAL VOL	90	647	1451	173	267	363	27
MEAN	30.0	129.4	111.6	57.7	66.8	51.9	27
RANGE	24-42	72-238	15-171	25-91	45-82	21-94	—
NO. LIZARDS	3	5	13	3	4	7	1

Callisaurus draconoides Testis Volumes (70⁺mm S-V)

1960
Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
34	165	81	57	54	94	24
20	181	84	21	33	65	
30	77	63	35	63	48	
	91	130		75	69	
	71	96		98	84	
		121		100	28	
		128		110	34	
		145				
		115				
		161				
		104				
		102				
		157				

TOTAL VOL	84	585	1487	113	225	422	24
MEAN	28.0	117.0	114.4	37.7	56.3	60.3	24
RANGE	20-34	71-181	63-157	21-57	33-75	28-94	—
NO. LIZARDS	3	5	13	3	4	7	1

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Callisaurus draconoides Testis Volume (70+ mm S-V)

1961
Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
38	5	15	3	—	104	—	8
	25	38					
	25	97					
		5					

TOTAL VOL	38	55	155	3	0	104	0	8
MEAN	38	18.3	38.8	3	0	104	0	8
RANGE	—	5-25	5-97	—	0	—	0	—
NO. LIZARDS	1	3	4	1	0	1	0	1

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
39	7	18	6	—	128	—	9
	35	42					
	30	97					
		4					

TOTAL VOL	39	72	161	6	0	128	0	9
MEAN	39	24.0	40.3	6	0	128	0	9
RANGE	—	7-35	4-97	—	0	—	0	—
NO. LIZARDS	1	3	4	1	0	1	0	1

Callisaurus draconoides Testis Volumes (70⁺mm S-V)

1962
Left Testis

MAY	JUN	JUL	AUG
173	—	27	15
187		38	8
131		94	5
286		38	4
208		107	3
105		75	4
191			
8			
150			
176			
15			
47			
11			
15			
33			
69			

TOTAL VOL	1805	0	379	39
MEAN	112.8	0	63.2	6.5
RANGE	8-286	0	27-107	3-15
NO. LIZARDS	16	0	6	6

Callisaurus draconoides Testis Volumes (70 mm SV)

1962
Right Testis

MAY	JUN	JUL	AUG
198	-	28	13
176		41	8
139		97	5
251		57	4
217		89	6
102		82	4
143			
13			
154			
220			
15			
55			
13			
16			
33			
91			

TOTAL VOL	1836	0	394	40
MEAN	114.8	0	65.7	6.7
RANGE	13-251	0	28-97	4-13
NO. LIZARDS	16	0	6	6

Callisaurus draconoides testis volumes (70⁺mm, S-V)

1963

Left Testis

Apr	May	Aug	Sep
61	14	67	8

29

11

24

16

43

24

ΣX	61	161	67	8
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N	1	7	1	1
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\bar{X}	61	23.0	67	8
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range	-	11-43	-	-
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Right Testis

Apr	May	Aug	Sep
75	15	53	8

59

21

20

24

47

29

ΣX	75	215	53	8
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N	1	7	1	1
-----	---	---	---	---

\bar{X}	75	30.7	53	8
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range	-	15-59	-	-
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Testis Volumes, *Callisaurus draconoides* Adults (10+mm C-V)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

||||



Testis Volumes, *Callisaurus draconoides* Immature (<12mm SVL)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

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Callisaurus draconoides Adults (70+ mm SL)

(15)

Left testis anterior

(16)

Right testis anterior

(17)

Testes even

|||||

Callisaurus draconoides Immature (<70mm S-V)

(15)

Left testis anterior

(16)

Right testis anterior

(17)

Testes even

|||

Callisaurus draconoides Adult ♂ (70+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				I
May	I		III	IIIIIIII
Jun				
Jul				III
Aug				IIII
Sep				I
Oct				
Nov				
Dec				

Callisaurus draconoides Immature ♂

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May	1		1	
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				

Calisaurus draconoides Adult ♀ (65⁺ mm. S-V)

19

LEFT OVARY ANTERIOR

18

RIGHT OVARY ANTERIOR

20

OVARIES EVEN

~~XXXXXX~~

~~XXXXXX~~ //

Callisaurus draconoides

EGGS IN OVIDUCT

LEFT

RIGHT

NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																							
(5/1/60) 76			✓													✓							
(5/1/60) 83		✓													✓								
(5/9/60) 86			✓													✓							
(7/17/60) 113		✓													✓								
(1/10/61) 152		✓													✓								
(3/12/64) 246			✓													✓							

Callisaurus draconoides
SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO

SIZE IN mm

76 15.1 x 9.2; 14.7 x 8.1

83 17.0 x 7.8

86 15.3 x 9.0; 15.4 x 9.1

113 17.2 x 13.1

152 16.4 x 8.5

246 12.9 x 8.1; 12.8 x 8.7

$\bar{x} = 136.8 \times 81.6$

$N = 9$

$\bar{x} = 15.2 \times 9.1 \text{ mm}$

~~Range =~~

SIZE IN mm ^{Collapsed}

14.1 x 7.9; 15.4 x 7.5; ~~14.1 x 7.9~~

14.6 x 7.0; 15.5 x 8.0

15.4 x 9.0; 15.3 x 8.5; 14.0 x 9.3

16.6 x 13.7; 16.8 x 13.4

16.3 x 8.7; 16.0 x 9.0

14.3 x 8.7; 14.1 x 8.7; 14.1 x 9.0

$\bar{x} = 212.5 \times 127.4$

$N = 14$

$\bar{x} = 15.2 \times 9.2 \text{ mm}$

$\bar{x} = 349.3 \times 211.0$

$N = 23$

$\bar{x} = 15.2 \times 9.2 \text{ mm}$

Range = 12.8 x 7.0 mm to 17.2 x 13.1 mm

Callisaurus draconoides
OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1 IIII

. IIII

2 ~~IIII~~ IIII

~~IIII~~ IIII

3 III

III

4

4

5

1

6

7

8

9

10

Callisaurus draconoides
FAT BODIES
(7)

MONTH		ADULT		IMMATURE	
		(70+ [♂] mm.)	(65+ [♀] mm.)	♂	♀
JAN.					
FEB.					
MAR.	III 9	I			
APR.	III 11	III 12	III		
MAY	III 11 21	III 3			
JUN.	II 2	III 12	II		I
JUL.	III 15	III 21	II		II
AUG.	III 21	III 1			I
SEPT.	I	II 6	I		
OCT.	III 6	I	II		I
NOV.					
DEC.					

Callisaurus draconoides Adult (65+ mm SL)

Left ovary

Right ovary

/

2 11

31

41

5 III

61

7 ~~||||~~ |||

8 IIIII

9 HHHHHH

10 ~~||||~~ ||||

// ~~NI~~ III

12 III

13

14

15-

25-

301

Callisaurus draconoides Immature

No.

Left ovary

Right ovary

1

2

3

4¹

5¹

6 ~~||||~~

7 ~~||||~~

8 ~~||||~~

9 ~~||||~~

10 "

11¹

12 "

13

|||

~~||||~~

~~||||~~

~~||||~~

|||

||

|||

Callisaurus draconoides Adult ♀ (65+ mm S-V)

B

B1

B2

B3

Jan

Feb

Mar

Apr

May ~~||||~~||

Jun

Jul

Aug

Sep

Oct

Nov

Dec

|

||

|

||

|

|

||||

Callisaurus draconoides Immature

B

B1

B2

B3

Jan

Feb

Mar

Apr

May 14

Jun

Jul

Aug

Sep

Oct

Nov

Dec

Chemidophorus
tigris

Cnemidophorus
tigris

Potentially Breeding Cnemidophorus tigris ♂♂ (70+ mm, 5-1)

Totals, 1958-1965

Date	# ♂	No ♂	Total	% ♂
Sep '58	0	1	1	0
May '59	1	0	1	100
Jul. '59	1	1	2	50
Aug.	0	1	1	0
Sep	0	2	2	0
Apr. '60	2	0	2	100
May	4	1	5	80
Jun.	0	3	3	0
Jul.	4	1	5	80
Apr. '61.	2	0	2	100
May	1	4	5	20
Jun.	2	0	2	100
Apr. '62	3	1	4	75
May	14	0	14	100
Aug.	1	2	3	33
Mar '63	0	1	1	0
May	0	4	4	0
Apr. '64	2	1	3	66
May	0	1	1	0

Month	# ♂	No ♂	Total	% ♂
Mar	0	1	1	0
Apr.	7	1	8	88
May	20	9	29	69
Jun	2	3	5	40
Jul.	5	2	7	71
Aug	1	3	4	25
Sep.	0	3	3	0
Total			57	

Cnemidophorus tigris Adult ♀ (70⁺ mm. S-V)

(19)

LEFT OVARY ANTERIOR

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(18)

RIGHT OVARY ANTERIOR

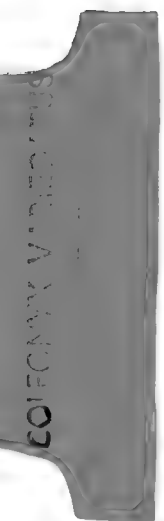
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(20)

OVARIES EVEN

~~///~~ ~~///~~ ~~///~~

COLEONYX VARIEGATUS



CONZONYA V. PIRELLA

TEMPERATURE

MONTH

TEMP

TEMP

MONTH	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP
MONTH	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	4	2	6
APR	2	-	2	75	57	132
MAY	-	-	-	33	30	63
JUN	2	1	3	37	28	65
JUL	-	-	-	2	7	15
AUG	-	1	1	18	15	33
SEP	2	2	4	8	5	23
OCT	1	-	1	9	4	15
NOV	-	1	1	1	-	1
DEC	-	-	-	-	-	-
	7	5	12	193	160	353

TOTALS

1944-1945

1944

1945

1946

1947

1948-1949

1948

1949

1950

1951

1952-1953

1952

1953

1954

1955

/15

1956-1957

1958-1959

4

1960

1961

1962

1.1 (cont)

ENR 100 (> 4 1000)

1959 4.14 - 1000

1960 4.14 - 1000

1961 4.14 - 1000

1962 4.14 - 1000

4.14 - 1000

ENR 100 (> 4 1000)

1959 4.14 - 1000

1960 4.14 - 1000

1961 4.14 - 1000

1962 4.14 - 1000

4.14 - 1000

ENR 100 (> 4 1000)

1959 4.14 - 1000

1960 4.14 - 1000

1961 4.14 - 1000

1962 4.14 - 1000

4.14 - 1000

ENR 100 (> 4 1000)

1959 4.14 - 1000

1960 4.14 - 1000

1961 4.14 - 1000

1962 4.14 - 1000

4.14 - 1000

Potentially Breeding *Colonyx variegatus* ♂ (55+mm, S-V)

(smallest ♂ = 51mm)
(largest ♂ = ")

Total, 1959-1961

Date	#(♂)	No(♀)	Total	%(♂)
Apr. '59	5	0	5	100
May	8	2	10	80
June	6	0	6	100
July			0	
Aug.	4	2	6	67
Sept.	0	1	1	0
Oct.	0	6	6	0
Nov.	0	1	1	0
Mar. '60	0	1	1	0
Apr.	21	3	24	88
May	9	0	9	100
June	5	0	5	100
July			0	
Aug.	2	0	2	100
Sept.	3	0	3	100
Oct.	0	2	2	0
Mar. '61	2	0	2	100
Apr.	15	2	17	88
May	5	2	7	71
June	21	1	22	95
July	3	0	3	100
Aug.	1	3	4	25
Sept.	3	0	3	100
Oct.	0	1	1	0
Apr. '62	7	0	7	100
Jun.	2	0	2	100
Jul.	5	0	5	100
Aug.	5	1	6	83
Sep.	2	0	2	100
Apr. '63	8	3	11	73

Month	#(♂)	No(♀)	Total	%(♂)
Mar.	2	1	3	67
Apr.	41	5	46	89
May	22	4	26	85
June	32	1	33	97
July	3	0	3	100
Aug.	7	5	12	58
Sept.	6	1	7	86
Oct.	0	1	1	0
Nov.	0	1	1	0
Total			140	

Potentially breeding Coleonyx variegatus ♂♂ (55+ mm, S-U)

Totals, 1959-1963

Date	# ♂	No ♂	Total	% ♂
May '63	6	1	7	86
Apr Jan '64	8	3	11	73

Month	# ♂	No ♂	Total	% ♂
Mar	2	1	3	67
Apr.	56	8	64	88
May	28	5	33	85
Jun	34	1	35	97
Jul	8	0	8	100
Aug	12	6	18	67
Sep	8	1	9	89
Oct	0	9	9	0
Nov.	0	1	<u>1</u>	0
			180	

Coleonyx variegatus - (55⁺ mm. S-V)

Left Testis Volume - Summary 1959-1963

Month	ΣX	N	\bar{X}
Mar	168	4	42.0
Apr	3878	64	60.6
May	1806	32	56.4
Jun	2018	37	54.5
Jul	358	8	44.8
Aug	556	18	30.9
Sep	80	8	10.0
Oct	108	9	12.0
Nov	16	1	16.0

Coleonyx variegatus Testis Volumes (55mm S-V)

1959
Left Testis

APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
35	26	29	—	21	3	13	16
62	34	56		60		15	
50	41	51		25		19	
59	4	144		42		7	
60	56	54		2		19	
	100	62		26		19	
	56	56					
	37	42					
	31	18					
	42						

TOTAL VOL	266	427	512	0	176	3	92	16
MEAN	53.2	42.7	56.9	0	29.3	3	15.3	16
RANGE	35-62	4-100	18-144	0	2-60	—	7-19	—
NO. LIZARDS	5	10	9	0	6	1	6	1

Right Testis

35	35	11	—	25	3	13	18
62	44	45		56		15	
50	36	59		24		26	
70	3	149		51		8	
70	45	46		6		17	
	85	56		41		16	
	47	53					
	41	46					
	23	18					
	49						

TOTAL VOL	287	408	483	0	203	3	95	18
MEAN	57.4	40.8	53.7	0	33.8	3	15.8	18
RANGE	35-70	3-85	11-149	0	6-56	—	8-26	—
NO. LIZARDS	5	10	9	0	6	1	6	1

Coleonyx variegatus Testis Volumes (55 mm S-V)

1960

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
22	54	~	100	—	9	25	8
24	33	24	28		28	5	4
	68	56	35				
	23	62	53				
	50	83	29				
	36	60					
	54	73					
	66	72					
	60	50					
	9						
	113						
	79						
	83						
	35						
	62						
	79						
	37						
	72						
	112						
	31						
	91						
	72						
	73						
	63						

TOTAL VOL.	46	1455	480	245	0	37	30	12
MEAN	23.0	60.6	60.0	49.0	0	18.5	15.0	6.0
RANGE	22-24	9-113	24-83	28-100	0	9-28	5-25	4-8
NO. LIZARDS	2	24	8	5	0	2	2	2

Coleonyx variegatus Testis Volumes (55+ mm S-V)

1960
Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
23	57	30	103	—	10	16	8
30	32	18	42		40	4	3
	60	62	29				
	36	65	34				
	59	95	42				
	50	80					
	40	74					
	51	59					
	54	56					
	14						
	114						
	48						
	54						
	33						
	45						
	77						
	40						
	66						
	95						
	31						
	77						
	71						
	68						
	79						

TOTAL VOL.	53	1351	539	250	0	50	20	11
MEAN	26.5	56.3	59.9	50.0	0	25.0	10.0	5.5
RANGE	23-30	14-114	18-95	29-103	0	10-40	4-16	3-8
NO. LIZARDS	2	24	9	3	0	2	2	2

Coleonyx variegatus Testis Volumes (55⁺ mm S-V)

1961

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
79	91	37	102	19	60	9	4
43	43	12	45	50	36	5	
	67	97	32	62	37	18	
	28	89	41		45		
	81	60	21				
	101	93	20				
	69	72	40				
	108		101				
	93		60				
	57		36				
	65		69				
	63		46				
	46		57				
	65		68				
	100		37				
	54		64				
	67		60				
			56				
			41				
			56				
			51				

TOTAL VOL. 122 1198 470 1103 131 178 32 4

MEAN 61.0 70.5 67.1 52.5 43.7 44.5 10.7 4

RANGE 43-79 28-108 22-97 21-102 19-62 36-60 5-18 —

NO. LIZARDS 2 17 7 21 3 4 3 1

Coleonyx variegatus Testis Volumes (55+mm S-V)

1961

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
112	72	39	104	51	60	8	5
20	56	32	46	42	45	4	
	23	74	37	60	30	11	
	83	60	27		29		
	92	48	21				
	69	87	20				
	69	69	33				
	105	41	85				
	92		60				
	50		25				
	66		53				
	40		39				
	39		60				
	74		79				
	112		39				
	81		66				
	73		71				
			51				
			35				
			54				
			51				

TOTAL VOL	132	1196	409	1056	153	164	23	5
MEAN	66.0	70.4	58.4	50.3	51.0	41.0	7.7	5
RANGE	20-112	23-112	32-87	20-104	42-60	29-60	4-11	—
NO. LIZARDS	2	17	7	21	3	4	3	1

Coleonyx variegatus Testis Volumes (55⁺mm S-V)

1962
Left Testis

APR	MAY	JUN	JUL	AUG	SEPT
94	—	81	54	8	10
101		77	37	37	5
65			45	25	
70			32	36	
51			59	29	
54				30	
56					

TOTAL VOL. 491	0	158	227	165	15
MEAN 70.1	0	79.0	45.4	27.5	7.5
RANGE 51-101	0	77-81	32-59	8-37	5-10
NO. LIZARDS 7	0	2	5	6	2

Right Testis

APR	MAY	JUN	JUL	AUG	SEPT
91	—	87	50	~	11
107		69	43	44	5
131			45	29	
144			33	35	
39			60	22	
48				32	
65					

TOTAL VOL. 625	0	156	231	162	16
MEAN 89.3	0	78.0	46.2	32.4	8.0
RANGE 39-144	0	69-87	33-60	22-44	5-11
NO. LIZARDS 7	0	2	5	5	2

NOTE
OMISSION



Coleonyx variegatus - Testis volumes (55+ mm, S-V)

1963

Left Testis

Apr	May
33	30
24	36
68	62
65	81
42	97
22	30
60	93
35	
18	
45	
56	

ΣX	468	429
N	11	7
\bar{X}	42.5	61.3
range	18-68	30-97

Right Testis

Apr	May
40	62
36	40
77	77
38	81
32	96
22	52
35	53
41	26
57	
41	

ΣX	419	461
N	10	8 7
\bar{X}	41.9	65.8
range	22-77	40-96



Testis Volumes, *Coleonyx variegatus* Adults (55+ mm SL)

Left testis larger

|||||
|||||

Right testis larger

|||||
|||||

Testes same size

|||||



Testis Volumes, *Coleonyx variegatus* Immature (455 mm SL)

Left testis larger

||||

Right testis larger

Testes same size



Coleonyx variegatus Immature (<55 mm SL)

(15)
Left testis anterior

(16)
Right testis anterior

(17)
Testes even

Coleonyx variegatus Adults (55+mm S-V)

(15)

Left testis anterior

(16)

Right testis anterior

|||||

(17)

Testes even

||

Coleonyx variegatus
EGGS IN OVIDUCT

LEFT

RIGHT

NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10	
NO. of TAG		✓												✓										
367-27		✓												✓										
36		✓												✓										
38		✓												✓										
52		✓												✓										
55		✓												✓										
89		✓												✓										
105		✓												✓										
110		✓												✓										
131		✓												✓										
135		✓												✓										
139		✓												✓										
140		✓												✓										
167		✓												✓										
181		✓												✓										
182		✓												✓										
201		✓												✓										
215		✓												✓										
239		✓												✓										
241		✓												✓										
242		✓												✓										
245		✓												✓										
263		✓												✓										
278		✓												✓										
290		✓												✓										
294		✓												✓										
300		✓												✓										
341		✓												✓										
342		✓												✓										
346		✓												✓										

367 ~~14.1 X 4.1~~ 13.1 X 4.1

14.1 X 4.2 21.7 X 15.8 mm

Coleonyx variegatus

SIZE OF EGGS IN OVIDUCT

LIZARD NO	LEFT	RIGHT
SIZE IN mm.	SIZE IN mm.	<u>Eggs laid</u>
27 15.5 x 9.0	16.0 x 9.0	
36 17.0 x 8.4	16.7 x 8.6	19.6 x 9.8 mm
38 13.4 x 7.1	13.7 x 7.5	19.7 x 9.8 "
52 x	14.9 x 7.5	
55 16.7 x 8.2	17.2 x 8.2	
89 17.5 x 13.4	18.1 x 13.8	
105 18.0 x 8.3	18.0 x 8.3	
110 16.6 x 8.4	17.5 x 8.4	
131 19.4 x 9.7	19.5 x 9.9	
135 Deformed	Deformed	
139 18.4 x 9.4	17.3 x 9.3	
140 14.0 x 9.0	14.6 x 8.9	
167 15.0 x 7.8	15.8 x 8.0	
181 18.0 x 9.0	18.0 x 9.0	
182 18.9 x 9.3	18.9 x 8.7	
201 20.0 x 9.9	20.2 x 9.9	
215 19.0 x 9.3	21.9 x 9.5	
239 18.9 x 7.8	19.3 x 7.4	
241 18.1 x 8.3	17.4 x 8.2	
242 15.8 x 8.0	16.4 x 7.8	
245 17.0 x 9.5	15.9 x 8.5	
263 19.2 x 9.4	18.4 x 9.1	
278 18.0 x 7.8	19.9 x 7.8	
290 14.1 x 8.0	13.5 x 6.8	
294 17.4 x 7.0	18.0 x 8.3	
300 15.1 x 7.7	16.1 x 8.6	
341 18.3 x 9.1	20.0 x 9.1	
342 16.6 x 8.5	16.3 x 9.1	
346 18.8 x 9.1	18.4 x 8.9	
367 14.1 x 4.2 13.7 x 4.9	14.1 x 4.2	
$\Sigma X = 478.4 \times$ $\Sigma X = 241.6$ $N = 28$ $\bar{X} = 17.1 \times 8.6 \text{ mm}$		$\Sigma X = 502.0 \times$ $\Sigma X = 248.3$ $N = 29$ $\bar{X} = 17.3 \times 8.6 \text{ mm}$
		<u>Total</u> $\Sigma X = 980.4 \times 489.90$ $N = 57$ $\bar{X} = 17.2 \times 8.6 \text{ mm}$ Range = 13.4 x 4.2 mm to 21.9 x 13.8 mm

Colonyx variegatus
FAT BODIES

⑦

ADULT
(55+ mm)

IMMATURE

MONTH

♂

♀

♂

♀

JAN.

FEB.

MAR. IIII 5

II 3

APR. ~~IIII~~ ~~IIII~~ 6

~~IIII~~ ~~IIII~~ ~~IIII~~ 3

MAY ~~IIII~~ 3

~~IIII~~ 2

JUN. IIII 2

IIII 2

JUL. 5

I 2

AUG. II 4

II 1

SEPT. III 10

III 12

OCT. IIII 10

IIII 6

NOV. I 1

DEC.

I

I

Coleonyx variegatus Adult (55+ mm S-V)
(No. ova)

) Left ovary	Right ovary
1 III	III
2 I	
3 III	I
4 IIIII	IIIIII
5 IIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIII
6 IIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIIIIIIIIIIIIIII
7 IIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIII
8 IIIII	IIIIII
9 II	II
10 II	II
11	

Coleonyx variegatus Immature

Left ovary	Right ovary
1	
2	1
3 "	
4	1
5-1	1
6 1	"
7	
8	
9	
10 1	
11	

DIPSOSAURUS DORSALIS

DIPSOSAURUS DORSALIS

Dipsosaurus dorsalis Testis Histology

<u>Figure No.</u>	<u>Stage</u>	<u>Lizard No.</u>	<u>Capture Date</u>	<u>Magnification</u>
4 A	1 (normal)	10	4/10/59	605
4 B	1 (abnormal)	596	5/6/62	420
5 A	2	594	5/6/62	590
5 B	3	574	4/23/62	560
6 A	4	592	5/6/62	330
6 B	5	92	3/28/60	390
7	6	241	6/9/60	390
8 A	7	40	6/10/59	340
8 B	7 (interstitial cells)	336	8/11/60	370
9 A	8	82	8/31/59	605
9 B	immature	78	8/20/59	605
12 A	non-breeding epididymis	10	4/10/59	670
12 B	breeding epididymis	241	6/9/60	360

7. 11. 1900

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

| | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 |
|-------|------|------|------|------|------|------|------|
| JAN | - | - | - | - | - | - | - |
| FEB | - | - | - | - | - | - | - |
| MAR | - | - | - | - | - | - | 2 |
| APR | 3 | 17 | 6 | 12 | 5 | 49 | 49 |
| MAY | 2 | 30 | 11 | 9 | 1 | 53 | 53 |
| JUN | 1 | 2 | 18 | 6 | 6 | 33 | 33 |
| JUL | - | 1 | 27 | 7 | 6 | 20 | 20 |
| AUG | 2 | - | 17 | 7 | 7 | 34 | 34 |
| SEP | 1 | 1 | 6 | - | 3 | 15 | 15 |
| OCT | - | - | - | - | - | - | - |
| NOV | - | - | - | - | - | - | - |
| DEC | - | - | - | - | - | - | - |
| TOTAL | 4 | 10 | 12 | 44 | 48 | 200 | 200 |

DISC

01

SWAN

1959

1960

1961

1962

1963

1964

1965

1966

1967

1968

1969

1970

1971

1972

1973

1974

1975

1976

1977

1978

1979

D. D. (CONT.)

ENLARGED EGGS (> 5 mm.)

1959 5/11 - 6/11 -

1960 7/11 - 8/11 -

1961 5/11 - 7/11 -

1962 7/11 - 8/11 -

11/12 - 1/13 -

CONVOLUTED OVIDUCTS

1959 7/11 - 8/11 -

1960 7/11 - 8/11 -

1961 7/11 - 8/11 -

1962 5/11 - 8/11 -

5/11 - 8/11 - 11/12 - 1/13 -

EGGS IN OVIDUCTS

1959 -

1960 5/11 - 8/11 -

1961 8/11 -

1962 5/11 - 8/11 -

5/11 - 8/11 - 11/12 - 1/13 -

CORPORA LUTEA

1959 -

1960 5/11 - 8/11 -

1961 7/11 - 8/11 -

1962 5/11 - 8/11 -

5/11 - 8/11 -

Dipsosaurus dorsalis ♂♂ (115⁺mm, S-V)

Number and Sites Collected, 1958-1963

| <u>Glamis</u> | <u>No.</u> |
|---------------|------------|
| 1958 | 5 |
| 1959 | 7 |
| 1960 | 22 |
| 1961 | 14 |
| 1962 | 14 |
| 1963 | 0 |
| Total - | 62 |

| <u>Totals</u> | |
|---------------|-----|
| 1958 | 5 |
| 1959 | 31 |
| 1960 | 149 |
| 1961 | 91 |
| 1962 | 86 |
| 1963 | 7 |
| Total - | 369 |

| <u>Dale Lake</u> | |
|------------------|-----|
| 1959 | 11 |
| 1960 | 51 |
| 1961 | 25 |
| 1962 | 24 |
| 1963 | 6 |
| Total - | 117 |

| <u>Palm Springs</u> | |
|---------------------|-----|
| 1959 | 13 |
| 1960 | 76 |
| 1961 | 52 |
| 1962 | 48 |
| 1963 | 1 |
| Total - | 190 |

| <u>Total adults autopsied</u> | |
|-------------------------------|-----|
| Glamis - | 106 |
| Dale Lake - | 166 |
| Palm Springs - | 294 |
| Total - | 566 |

Dipsosaurus dorsalis ♀♀ (110+mm, S-V)

Total Examined

Glamis - 44

Dale Lake - 49

Palm Springs - 104

Potentially Breeding *Dipsosaurus dorsalis* (115 mm, ♀-V)

(Smallest ♂ = 112 mm)
(largest ♂ = 140 mm)

Totals, 1958-1961

| Date | # ♂ | No ♂ | Total | % ♂ |
|--------------------|-----|------|-------|-----|
| Aug. '58 (2-light) | 0 | 5 | 5 | 0 |
| Apr. '59 | 0 | 6 | 6 | 0 |
| May | 2 | 0 | 2 | 100 |
| June | 12 | 1 | 16 | 75 |
| July | 0 | 4 | 4 | 0 |
| Aug. | 0 | 4 | 4 | 0 |
| Mar. '60 | 0 | 1 | 1 | 0 |
| Apr. | 16 | 0 | 16 | 61 |
| May | 44 | 3 | 47 | 94 |
| June | 40 | 1 | 41 | 98 |
| July | 6 | 1 | 7 | 86 |
| Aug. (5-light) | 0 | 11 | 11 | 0 |
| Sept. | 0 | 0 | 0 | 0 |
| Apr. '61 (4-light) | 0 | 1 | 1 | 0 |
| May | 7 | 14 | 21 | 33 |
| June | 1 | 1 | 2 | 50 |
| July (2-light) | 1 | 6 | 7 | 14 |
| Aug. | 0 | 12 | 12 | 0 |
| Sept. | 0 | 4 | 4 | 0 |
| Oct. | 0 | 1 | 1 | 0 |
| Mar. '62 | 0 | 6 | 6 | 0 |
| Apr. | 8 | 14 | 22 | 36 |
| May | 9 | 7 | 16 | 56 |
| Jun. | 14 | 1 | 15 | 93 |
| Jul. | 15 | 3 | 18 | 83 |
| Aug. | 34 | 2 | 36 | 94 |
| Sept. | 0 | 4 | 4 | 0 |
| Apr. '63 | 0 | 4 | 4 | 0 |
| May | 1 | 2 | 3 | 33 |

| Month | # ♂ | No ♂ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Mar. | 0 | 1 | 1 | 0 |
| Apr. | 16 | 23 | 39 | 41 |
| May | 53 | 17 | 70 | 76 |
| June | 84 | 3 | 87 | 96 |
| July | 17 | 19 | 36 | 47 |
| Aug. | 0 | 34 | 34 | 0 |
| Sept. | 0 | 10 | 10 | 0 |
| Oct. | 0 | 1 | 1 | 0 |
| Total | | | 223 | |

Totals, 1958-1963

| Month | # ♂ | No ♂ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Mar. | 0 | 7 | 7 | 0 |
| Apr. | 24 | 41 | 65 | 37 |
| May | 63 | 26 | 89 | 71 |
| Jun. | 98 | 4 | 102 | 96 |
| July | 32 | 22 | 54 | 58 |
| Aug. | 0 | 45 | 45 | 0 |
| Sep. | 0 | 14 | 14 | 0 |
| Oct. | 0 | 1 | 1 | 0 |
| Total | | | 377 | |

Potentially Breeding *Dipsosaurus dorsalis* ♀♀ (115+mm, ~V)

| | Palm Springs | | | | 21 Palm | | | | Glennia | | | |
|----------|---------------|----|-------|-----|---------------|----|-------|-----|---------|----|-------|-----|
| Date | # | No | Total | % | # | No | Total | % | # | No | Total | % |
| Aug. '58 | | | | | | | 0 | | | | 0 | |
| Apr. '59 | 2 | + | + | | 0 | 1 | 1 | | | | 0 | |
| May | | | | | | | 0 | | 2 | 0 | 2 | 100 |
| June | 6 | 0 | 6 | 100 | 6 | 0 | 6 | 100 | 3 | 1 | 4 | 100 |
| July | 0 | 2 | 2 | | 0 | 2 | 2 | | | | 0 | |
| Aug. | 0 | 1 | 1 | | 0 | 2 | 2 | | 0 | 1 | 1 | |
| Mar. '60 | 0 | 1 | 1 | | | | 0 | | | | | |
| Apr. | 0 | 6 | 10 | 100 | 1 | 1 | 1 | 81 | 2 | 0 | 2 | 100 |
| May | 23 | 0 | 23 | 100 | 13 | 0 | 13 | 100 | 1 | 3 | 10 | |
| June | 11 | 1 | 10 | 100 | 12 | 0 | 12 | 100 | 0 | 0 | 0 | |
| July | 3 | + | 7 | 100 | + | + | 6 | 50 | 1 | 1 | 2 | 50 |
| Aug. | (+light)
0 | 10 | 10 | | (+light)
0 | 2 | 2 | 0 | | | 0 | |
| Sept. | (+light)
0 | 2 | 2 | 0 | 0 | + | + | | | | 0 | |
| Apr. '61 | | - | - | 0 | | | 0 | | 0 | + | + | |
| May | 4 | - | 1 | 100 | (+light)
2 | | 10 | 100 | 2 | 0 | 2 | 100 |
| June | 11 | | 11 | 100 | 13 | 0 | 13 | 100 | 4 | 0 | 4 | 100 |
| July | 1 | 4 | 11 | 100 | (+light)
0 | 2 | 2 | 0 | 2 | | 2 | 100 |
| Aug. | 0 | 11 | 11 | | | | 0 | | 0 | 2 | 2 | |
| Sept. | 0 | + | + | | | | | | | | 0 | |
| Oct. | 0 | 1 | 1 | | | | | | | | | |
| Mar '62 | 0 | 6 | 6 | 0 | | | 0 | | | | 0 | |
| Apr '62 | 7 | 0 | 7 | 100 | 0 | 6 | 6 | 0 | 1 | 8 | 9 | 11 |
| May | 5 | 0 | 5 | 100 | 2 | 7 | 9 | 22 | 2 | 0 | 2 | 100 |
| Jun. | 10 | 0 | 10 | 100 | 3 | 1 | 4 | 75 | 1 | 0 | 1 | 100 |
| Jul. | 12 | 1 | 13 | 92 | 2 | 2 | 4 | 50 | 1 | 0 | 1 | 100 |
| Aug. | 4 | 0 | 4 | 100 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| Sep. | 0 | 4 | 4 | 0 | | | 0 | | | | 0 | |
| Apr. '63 | 0 | 1 | 1 | 0 | 0 | 3 | 3 | 0 | | | 0 | |
| May | | | 0 | | 1 | 2 | 3 | 33 | | | 0 | |

Dipsosaurus dorsalis (115⁺mm, S-V)

Left Testis volumes - Summary 1958-1963.

| Month | ΣX | N | \bar{X} |
|-------|------------|-----|-----------|
| Mar. | 1001 | 7 | 143.0 |
| Apr. | 18640 | 65 | 286.8 |
| May | 26829 | 89 | 301.4 |
| Jun | 26827 | 102 | 263.0 |
| Jul | 6847 | 53 | 129.2 |
| Aug | 2503 | 45 | 55.6 |
| Sep | 669 | 14 | 47.8 |
| Oct. | 27 | 1 | 27 |

(((

((

((

Dipsosaurus dorsalis Testis Volumes (115⁺ mm S-V)

1958

Left Testis

AUG

79

24

115

28

33

TOTAL VOL. 279

MEAN 55.8

RANGE 24-115

NO. LIZARDS 5

Right Testis

AUG

79

24

112

34

33

TOTAL VOL. 282

MEAN 56.4

RANGE 24-112

NO. LIZARDS 5

(((

(((

(

Xiposaurus dorsalis Testis Volumes (115⁺mm SL)

1959

| APR | MAY | JUN | JUL | Left Testis | |
|-----|----------------|----------------|-----|-------------|------|
| | | | | AUG | SEPT |
| 55 | 246 | 261 | 41 | 31 | |
| 71 | 320 | 388 | 40 | 79 | |
| 105 | 261 | 189 | 55 | 83 | |
| 37 | 388 | 292 | 81 | 75 | |
| 67 | 189 | 265 | | | |
| 131 | 292 | 131 | | | |
| | 265 | 138 | | | |
| | | 154 | | | |
| | | 173 | | | |
| | | 227 | | | |
| | | 343 | | | |
| | | 100 | | | |
| | | 314 | | | |
| | | 213 | | | |
| | | 217 | | | |
| | | 275 | | | |
| | | 147 | | | |

TOTAL VOL. 466 566 3698 217 268
MEAN 77.7 283.0 217.5 54.3 67.0
RANGE 37-105 246-320 ¹⁵~~1~~-388 40-81 31-83
NO. LIZARDS 6 2 17 4 4

Dipsosaurus dorsalis Testis Volumes (115⁺mm S-V)

1959

Right Testis

APR MAY JUN JUL AUG

61 222 271 46 36

70 330 338 47 79

105 169 45 67

39 325 60 79

67 261

161 119

193

20

197

237

445

151

343

343

23⁷

375

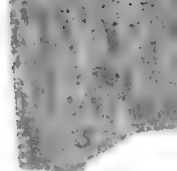
162

TOTAL VOL 503 552 4186 198 261

MEAN 83.8 276.0 246.2 49.5 65.3

RANGE 39-161 222-330 20-445 45-60 36-79

NO. LIZARDS 6 2 17 4 4



(/

1.4

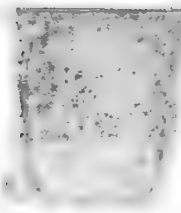
1.4

Xiprosaurus dorsalis Testis Volumes (115^{mm} SV)

1960

Left Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT |
|-----|------|----------------|-----|-----|-----|---------------|
| 218 | 443 | 41 | 280 | 91 | 46 | 29 |
| | 584 | 582 | 420 | 59 | 66 | 36 |
| | 582 | 166 | 275 | 237 | 27 | 51 |
| | 343 | 280 | 246 | 315 | 134 | 25 |
| | 232 | 167 | 205 | 246 | 37 | 41 |
| | 308 | 47 | 141 | 227 | 27 | 94 |
| | 428 | 96 | 165 | 248 | 35 | 32 |
| | 401 | 445 | 218 | 150 | 55 | 44 |
| | 176 | 286 | 260 | 218 | 41 | 67 |
| | 200 | 350 | 290 | 326 | 26 | |
| | 246 | 336 | 232 | 128 | 59 | |
| | 217 | 510 | 180 | 48 | 26 | |
| | 275 | 280 | 256 | 67 | 45 | |
| | 86 | 358 | 169 | 110 | 29 | |
| | 836 | 354 | 193 | 50 | 96 | |
| | 456 | 237 | 217 | 33 | 57 | |
| | 662 | 251 | 422 | 69 | 57 | |
| | 692 | 516 | 350 | | | |
| | 1024 | 324 | 420 | | | |
| | 704 | 388 | 343 | | | |
| | 381 | 232 | 209 | | | |
| | 780 | 354 | 533 | | | |
| | 733 | 298 | 196 | | | |
| 206 | 573 | 441 | | | | |
| | 508 | 872 | | | | |
| | 469 | 483 | | | | |
| | 86 | 331 | | | | |
| | 139 | 368 | | | | |
| | 275 | 398 | | | | |
| | 712 | 508 | | | | |



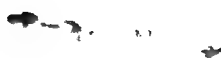
(1)



(2)



(3)



(4)

(5)

Dipsosaurus dorsalis Testis Volumes (cont.)

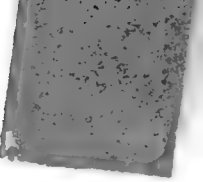
1960

Left Testis

MAR APR MAY JUN JUL AUG SEPT

— — 593 474
456 499
658 410
464 326
531 460
548 188
487 420
457 315
401 343
362 450
246 435
292
261
205
395
381
526

TOTAL VOL. 218 10995 16843 13941 2622 863 276
MEAN 218 458.1 358.4 340.0 154.2 50.8 46.0
RANGE — 86-1024 41-712 141-872 33-326 26-134 25-99
NO. LIZARDS 1 24 47 41 17 17 6

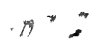
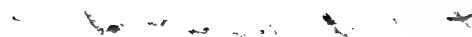


Dipsosaurus dorsalis Testis Volumes (115 mm SV)

1960

Right Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT |
|-----------------|-----------------|-----|-----|-----|-----|------|
| 193 | 378 | 26 | 429 | 77 | 60 | 25 |
| 772 | 582 | 601 | 400 | 57 | 57 | 43 |
| 593 | 582 | 21 | 209 | 292 | 34 | 40 |
| 280 | 343 | 332 | 228 | 233 | 112 | 31 |
| 256 | 256 | 138 | 196 | 292 | 66 | 36 |
| 355 | 355 | 41 | 147 | 193 | 29 | 73 |
| 416 | 416 | 79 | 218 | 124 | 39 | |
| 368 | 368 | 388 | 209 | 169 | 32 | |
| 167 | 167 | 407 | 343 | 188 | 25 | |
| 218 | 218 | 341 | 246 | 265 | 25 | |
| 244 | 244 | 270 | 260 | 286 | 21 | |
| 269 | 269 | 472 | 158 | 46 | 33 | |
| 241 | 241 | 256 | 287 | 101 | 27 | |
| 73 | 73 | 358 | 188 | 101 | 28 | |
| 1075 | 1075 | 375 | 209 | 41 | 65 | |
| | 421 | 297 | 276 | 33 | 47 | |
| | 635 | 275 | 372 | 54 | 41 | |
| | 893 | 533 | 398 | | | |
| | 615 | 315 | 347 | | | |
| | 712 | 420 | 360 | | | |
| | 407 | 205 | 205 | | | |
| | 723 | 343 | 686 | | | |
| | 674 | 400 | 147 | | | |
| | 193 | 557 | 471 | | | |
| | | 133 | 682 | | | |
| | | 395 | 320 | | | |
| | | 275 | 343 | | | |
| | | 157 | 314 | | | |
| | | 362 | 343 | | | |
| | | 637 | 435 | | | |



Lissoceornis borealis Testis Volumes (cont.)
1960

Right testis

MAR APR MAY JUN JUL AUG SEPT

558 508

369 422

621 464

533 290

703 448

502 231

461 394

450 368

232 355

338 398

235 663

282

193

205

372

401

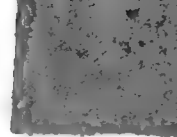
460

TOTAL VOL. 193 10970 16324 13967 2552 741 248

MEAN 193 457.13 47.33 40.7 150.1 43.6 41.3

RANGE — 73-1075 21-703 147-686 41-292 21-112 25-73

NO. LIZARDS 1 24 47 41 17 17 6



Dipsosaurus dorsalis Testis Volumes (115 mm or S-V)

1961

Left Testis

| APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|----------------|-----------------------|-----|----------------|-----|---------------|-----|
| 38 | 356 | 237 | 176 | 57 | 45 | 27 |
| 149 | 155 | 218 | 18 | 34 | 73 | |
| 31 | 263 | 280 | 121 | 57 | 67 | |
| 28 | 433 | 169 | 173 | 42 | 34 | |
| 39 | 290 | 165 | 32 | 26 | 27 | |
| 75 | 280
165 | 193 | 110 | 26 | | |
| 157 | 47 | 251 | 167 | 47 | | |
| 173 | 141 | 200 | 41 | 30 | | |
| 84 | 131 | 151 | 113 | 33 | | |
| 214 | 214 | 276 | 52 | 50 | | |
| | 326 | 162 | 131 | 30 | | |
| | 34 | 181 | 116 | 41 | | |
| | 75 | 310 | 79 | 48 | | |
| | 401 | 266 | 119 | | | |
| | 28 | 251 | 173 | | | |
| | 222 | 193 | 173 | | | |
| | 41 | 197 | 173 | | | |
| | 222 | 410 | 173 | | | |
| | 29 | 188 | 173 | | | |
| | 338 | 30 | 173 | | | |
| | | 158 | 173 | | | |
| | | 119 | | | | |

APR MAY JUN JUL AUG SEPT OCT

| | | | | | | | | |
|-----|-------------|--------|--------|--------|--------|-------|-------|----|
| 138 | TOTAL VOL. | 774 | 4201 | 6376 | 1621 | 521 | 219 | 27 |
| 251 | MEAN | 86.0 | 200.0 | 212.5 | 108.1 | 40.1 | 54.8 | 27 |
| 410 | RANGE | 28-173 | 29-401 | 30-410 | 18-176 | 26-57 | 34-73 | — |
| 303 | NO. LIZARDS | 9 | 2 | 30 | 15 | 13 | 4 | 1 |
| 176 | | | | | | | | |
| 173 | | | | | | | | |
| 111 | | | | | | | | |

Dipsosaurus dorsalis Testis Volumes (115mm S-V)

1961

Right Testis

| APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|------|-----|
| 34 | 290 | 213 | 177 | 64 | 48 | 23 |
| 141 | 172 | 164 | 23 | 54 | 51 | |
| 41 | 255 | 280 | 141 | 47 | 51 | |
| 21 | 428 | 176 | 197 | 42 | 46 | |
| 21 | 293 | 141 | 26 | 24 | | |
| 60 | 237 | 223 | 107 | 35 | | |
| 161 | 189 | 231 | 232 | 47 | | |
| 151 | 50 | 214 | 30 | 21 | | |
| 79 | 131 | 197 | 223 | 30 | | |
| | 141 | 350 | 59 | 65 | | |
| | 266 | 169 | 151 | 51 | | |
| | 295 | 209 | 113 | 42 | | |
| | 21 | 368 | 62 | 48 | | |
| | 91 | 266 | 112 | | | |
| | 495 | 222 | 154 | | | |
| | 51 | 197 | | | | |
| | 415 | 213 | | | | |
| | 36 | 325 | | | | |
| | 315 | 255 | | | | |
| | 30 | 31 | | | | |
| | 278 | 232 | | | | |

161
181
153

APR MAY JUN JUL AUG SEPT OCT

| | | | | | | | | |
|-----|-------------|--------|--------|--------|--------|-------|-------|----|
| 230 | TOTAL VOL | 709 | 4479 | 6502 | 1807 | 570 | 196 | 23 |
| 407 | MEAN | 78.8 | 213.3 | 216.7 | 120.5 | 43.8 | 49.0 | 23 |
| 235 | RANGE | 21-161 | 21-495 | 31-407 | 23-232 | 21-65 | 46-51 | - |
| 161 | NO. LIZARDS | 9 | 21 | 30 | 15 | 13 | 4 | 1 |
| 193 | | | | | | | | |
| 105 | | | | | | | | |

Dipsosaurus dorsalis Testis Volumes (115⁺ mm S-V)

1962

Left Testis

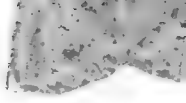
| MAR | APR | MAY | JUN | JUL | SEPT AUG | SEPT SEPT |
|-----|-----|-----|-----|-----|---------------------|----------------------|
| 105 | 351 | 173 | 185 | 141 | 25 | 32 |
| 119 | 217 | 173 | 94 | 131 | 87 | 52 |
| 113 | 320 | 82 | 232 | 184 | 151 | 45 |
| 133 | 162 | 38 | 47 | 141 | 128 | 45 |
| 110 | 298 | 62 | 286 | 73 | 106 | |
| 203 | 388 | 102 | 280 | 167 | 75 | |
| | 303 | 341 | 209 | 228 | | |
| | 280 | 181 | 232 | 151 | | |
| | 193 | 303 | 227 | 179 | | |
| | 69 | 298 | 324 | 193 | | |
| | 64 | 320 | 151 | 30 | | |
| | 8 | 362 | 298 | 71 | | |
| | 214 | 402 | 96 | 34 | | |
| | 73 | 407 | 151 | 36 | | |
| | 113 | 309 | | 165 | | |
| | 266 | 328 | | 236 | | |
| | 324 | | | 65 | | |
| | 398 | | | 162 | | |
| | 548 | | | | | |
| | 222 | | | | | |
| | 398 | | | | | |
| | 351 | | | | | |

TOTAL VOL. 783 5560 3881 2812 2387 572 174

MEAN 130.5 252.7 242.6 200.9 132.6 95.3 43.5

RANGE 105-203 8-548 38-407 94-324 30-236 25-151 32-52

NO. LIZARDS 6 22 16 14 18 6 4



2

4

4

4

Dipsosaurus dorsalis Testis Volumes (115⁺ mm S-V)

1962

Right Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|----------------|-----|-----|------|
| 118 | 307 | 169 | 181 | 118 | 34 | 37 |
| 116 | 210 | 181 | 91 | 130 | 83 | 36 |
| 116 | 352 | 79 | 282 | 108 | 246 | 43 |
| 138 | 217 | 46 | 26 | 157 | 108 | 41 |
| 130 | 381 | 60 | 300 | 39 | 112 | |
| 133 | 485 | 83 | 280 | 172 | 73 | |
| | 309 | 282 | 214 | 223 | | |
| | 331 | 293 | 250 | 197 | | |
| | 266 | 303 | 275 | 190 | | |
| | 88 | 285 | 344 | 150 | | |
| | 55 | 355 | 203 | 36 | | |
| | 10 | 360 | 324 | 97 | | |
| | 241 | 479 | 89 | 39 | | |
| | 141 | 439 | 161 | 27 | | |
| | 137 | 415 | | 162 | | |
| | 192 | 343 | | 193 | | |
| | 422 | | | 77 | | |
| | 456 | | | 161 | | |
| | 525 | | | | | |
| | 183 | | | | | |
| | 420 | | | | | |
| | 486 | | | | | |

TOTAL VOL 751 6214 41723020 2276 656 157

MEAN 125.2 282.5 260.8 215.7 126.4 109.3 39.3

RANGE 116-138 10-~~525~~ 46-479 26-344 27-223 34-246 36-43

NO. LIZARDS 6 22 16 14 18 6 4

Dipsosaurus dorsalis

Testis ~~biology~~ volumes (115⁺mm-S-V).

1963
Left Testis

| Apr | May |
|-----|-----|
| 241 | 557 |
| 45 | 499 |
| 308 | 282 |
| 251 | |

ΣX 845 1338

N 4 3

\bar{X} 211.2 446.0

Range 45-308 282-557

Right Testis

| Apr | May |
|-----|-----|
| 183 | 559 |
| 39 | 696 |
| 362 | 349 |
| 225 | |

ΣX 809 1603

N 4 3

\bar{X} 202.2 534.3

Range 39-362 349-696

(

(

(

Dipsosaurus dorsalis Adults (115+ mm SL)

(15)
Left testis anterior

(16)
Right testis anterior

(17)
Testes even

|||||

||

|||||

Dipsosaurus dorsalis Immature (< 115 mm S-L)

(15)

Left testis anterior

(16)

Right testis anterior

mm

(17)

Testes even

mm

Testis Volumes, *Dipsosaurus dorsalis* Adults (115+ mm SVL)

Left testis larger

|||||
|||||
|||||

Right testis larger

|||||
|||||
|||||

Testes same size

|||||

(

(

(

Testis Volumes, *Dipsosaurus dorsalis* Immature (< 115 mm SL)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

|||||

(

(

(

Dipsosaurus dorsalis Adult ♂ (115+ mm S-V)

| | B | B1 | B2 | B3 |
|-----|---|----|----|----|
| Jan | | | | |
| Feb | | | | |
| Mar | | | | |
| Apr | | | | |
| May | | | | |
| Jun | | | | |
| Jul | | | | |
| Aug | | | | |
| Sep | | - | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |

(

(

(

Dipsosaurus dorsalis Immature ♂

B

B1

B2

B3

Jan

Feb

Mar

Apr 11

May 1

Jun 11

Jul 1

Aug

Sep

Oct

Nov

Dec

(

(

(

Dipsosaurus dorsalis Adult ♀ (110⁺ mm. S-V)

| ①⑨
LEFT OVARY ANTERIOR | ①⑧
RIGHT OVARY ANTERIOR | ②⑦
OVARIES EVEN |
|---------------------------|----------------------------|--------------------|
|---------------------------|----------------------------|--------------------|

/

|||||

|||||

EGGS IN OVIDUCT

LEFT

RIGHT

[illegible]

Dipsosaurus dorsalis
SIZE OF EGGS IN OVIDUCT

LEFT
LIZARD NO.

SIZE IN mm.
255 32.4 x 15.6 31.0 x 16.1
294 26.6 x 14.4 25.8 x 14.3
329 25.0 x 11.5
513 26.4 x 16.4 26.2 x 15.6
624 24.8 x 16.1 27.1 x 15.1
640 24.9 x 14.7
666 24.8 x 14.8 25.5 x 15.5
676 22.6 x 13.8 25.3 x 14.0

$N = 14$
 $\Sigma X = 368.4 \times 207.9$
 $\bar{X} = 26.3 \times 14.8 \text{ mm}$

RIGHT

SIZE IN mm.
31.7 x 16.6 31.6 x 15.1
25.2 x 19.1 28.5 x 12.8
23.3 x 12.6 21.8 x 13.0
29.5 x 14.2
25.0 x 15.5 26.6 x 16.8 27.0 x 15.7
22.4 x 16.2 22.3 x 16.0
27.8 x 14.4
27.1 x 14.8

$N = 14$
 $\Sigma X = 369.8 \times 212.8$
 $\bar{X} = 26.4 \times 15.2 \text{ mm}$

$N = 28$

$\Sigma X = 738.2 \times 420.7$

$\bar{X} = 26.4 \times 15.0 \text{ mm}$

Range = 21.8 x 11.5 mm to 32.4 x 19.1 mm

Dipsosaurus dorsalis Adult (110+mm S-U)

| #eggs | Left ovary | Right ovary |
|-------|------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |



Dipsosaurus dorsalis Immature

| # eggs | Left ovary | Right ovary |
|--------|------------|-------------|
| 1 | | |
| 2 | I | |
| 3 | | I |
| 4 | I | I |
| 5 | III | III |
| 6 | III | III |
| 7 | III | III |
| 8 | III/IV | III/III |
| 9 | III/III | III/III |
| 10 | III | III |
| 11 | II | I |
| 12 | III | II |
| 13 | | I |
| 14 | | I |
| 15 | I | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

Dipsosaurus dorsalis Adult ♀ (110+mm S-V)

| B | B1 | B2 | B3 |
|------------------------------------|-----|-----|-----|
| Jan | | | |
| Feb | | | |
| Mar II | | | |
| Apr NI NI II | III | II | III |
| May IIII | I | III | I |
| Jun IIII | | I | |
| Jul NI I | | | |
| Aug NI II | | | |
| Sep I | I | | |
| Oct | | | |
| Nov | | | |
| Dec | | | |

Dipsosaurus dorsalis Immature

B

B1

B2

B3

Jan

Feb

Mar

Apr

May

Jun 1

Jul 1~~th~~

Aug 1

Sep 1

Oct

Nov

Dec

Dipsosaurus dorsalis
FAT BODIES
⑦

| MONTH | ADULT | | IMMATURE | |
|-------|---------------|---------------|----------|---|
| | ♂
(115 mm) | ♀
(110 mm) | ♂ | ♀ |
| JAN. | | | | |
| FEB. | | | | |
| MAR. | | | | |
| APR. | | | / | / |
| MAY | | | / | |
| JUN. | | | / | |
| JUL. | | / | / | / |
| AUG. | | | | |
| SEPT. | | | | |
| OCT. | | | | |
| NOV. | | | | |
| DEC. | | | | |

16

17

18



PHRYNOSOMA
M'CALLI

Potentially Breeding ♂ 65 mm (S.V)

Smallest (S) = mm.
Largest ♂ = mm.

| Number (S) | Mar. | Apr. | May | June | July | Aug | Sept. | Oct. |
|------------|------|------|-----|------|------|-----|-------|------|
| 1959-'64 | 0 | 8 | 13 | 9 | 20 | 15 | 1 | 0 |
| 1967 | 0 | 7 | 17 | 13 | 7 | 4 | — | — |
| Total | 0 | 15 | 30 | 22 | 27 | 19 | 1 | 0 |
| +1968 | | 18 | | | | | | |

| No (S) | Mar. | Apr. | May | June | July | Aug | Sept. | Oct. |
|----------|------|------|-----|------|------|-----|-------|------|
| 1959-'64 | 1 | 4 | 5 | 3 | 1 | 0 | 1 | 3 |
| 1967 | 0 | 5 | 7 | 1 | 0 | 0 | — | — |
| Total | 1 | 9 | 12 | 4 | 1 | 0 | 1 | 3 |
| +1968 | | 0 | | | | | | |

| Total # | Mar. | Apr. | May | June | July | Aug | Sept. | Oct. | Total. |
|----------|------|------|-----|------|------|-----|-------|------|--------|
| 1959-'64 | 1 | 12 | 18 | 12 | 21 | 15 | 2 | 3 | 84 |
| 1967 | 0 | 12 | 24 | 14 | 7 | 4 | — | — | 61 |
| Total | 1 | 24 | 42 | 26 | 28 | 19 | 2 | 3 | 145 |
| +1968 | | 27 | | | | | | | 172 |

| % (S) | Mar. | Apr. | May | June | July | Aug | Sept. | Oct. |
|----------|------|------|-----|------|------|-----|-------|------|
| 1959-'64 | 0 | 67 | 71 | 75 | 95 | 100 | 50 | 0 |
| 1967 | 0 | 58 | 71 | 93 | 100 | 100 | — | — |
| Total | 0 | 62 | 71 | 85 | 97 | 100 | 50 | 0 |

+1968

(67)

(1959-1964)

(dissected)

| | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 |
|--------|------|------|------|------|------|------|
| Jan. | | | | | | |
| Feb. | | | | | | |
| Mar. | 1 | 1 | 2 | | | 1 |
| Apr. | 2 | 1 | 1 | | | |
| May | 4 | | 1 | 18 | 1 | 2 |
| June | 2 | 1 | 1 | | | |
| July | | | | | | |
| Aug. | | | | | | |
| Sept. | 7 | | 3 | | | |
| Oct. | | 3 | 1 | | | |
| Nov. | | | | | | |
| Dec. | | | | | | |
| Totals | 15 | 9 | 24 | 54 | 11 | 200 |

| | 1967 | | | | | |
|-------|------|---|---|----|----|-----|
| April | - | - | - | 12 | 6 | 18 |
| May | - | - | - | 24 | 15 | 39 |
| June | 1 | 0 | 1 | 14 | 16 | 30 |
| July | 0 | 0 | 0 | 7 | 2 | 9 |
| Aug. | 0 | 0 | 0 | 4 | 2 | 6 |
| Sept. | 0 | 0 | 0 | 0 | 0 | 0 |
| Oct. | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 0 | 1 | 61 | 41 | 102 |

1959-1967

Totals

16 9 25

145 157 302

Grand Total
327

1968

NAME

ENLARGED 1. 11. ()

1959 7

1960 7

1961 7

1962 7

CONDUCTED 1. 11. 1962

1959 7

1960 7

1961 7

1962 7

WITHE 1. 11. 1962

1959 7

1960 7

1961 7

1962 7

FEMALE

CVA 1. 11. 1962

1959 7

1960 7

1961 7

1962 7

P. m. (1959)

ENLARGED OVIDUCTS

1959 8/9

1960 7/7

1961 1/1

1962 1/1

1963 1/1

UNVOLUTED OVIDUCTS

1959 7/1

1960 1/1

1961 1/1

1962 1/1

1963 1/1

EGG IN OVIDUCTS

1959

1960 1/1 - 4/4

1961 1/1 - 1/1

1962 1/1 - 9/6 1964 - 9/4

1963 1/1 - 1/1

SCAPULA ROTARY

1959

1960 1/1

1961 1/1

1962 1/1

1963 1/1

Phrynosoma m'calli Testis Volumes (65⁺mm S-V)

1959

Left Testis

JUN JUL

68 102

45 148

227

~~Left Testis~~ Right Testis

JUN JUL

36 91

42 131

228

TOTAL VOL 340 250

MEAN 113.3 125.0

RANGE 45-227 102-148

NO. LIZARDS 3 2

TOTAL VOL

306 222

MEAN

102.0 111.0

RANGE

36-228 91-131

NO. LIZARDS

3 2

~~Left Testis~~ 1960

MAY JUN JUL AUG

127 280 193 209

189

Right Testis

MAY JUN JUL AUG

131 237 214 189

158

TOTAL VOL 316 280 193 209

MEAN 158.0 280 193 209

RANGE 127-189 - - -

NO. LIZARDS 2 1 1 1

TOTAL VOL

289 237 214 189

MEAN

144.5

~~TOTAL VOL~~

RANGE

131-158 - - -

NO. LIZARDS

2 1 1 1

Phrynosoma m'calli Testis Volumes (65⁺ mm SL)

1961

Left Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|-----|------|-----|
| 44 | 97 | 63 | 75 | 223 | 119 | 13 | 29 |
| | 402 | 173 | 124 | 196 | 128 | | 17 |
| | 105 | | 93 | ~ | 141 | | |
| | 65 | | 79 | 113 | 228 | | |
| | 201 | | 119 | 208 | | | |
| | 94 | | 84 | 213 | | | |
| | 237 | | 33 | 41 | | | |
| | | | | 236 | | | |
| | | | | 141 | | | |
| | | | | 201 | | | |
| | | | | 214 | | | |
| | | | | 330 | | | |
| | | | | 197 | | | |
| | | | | 197 | | | |

| | | | | | | | | |
|-------------|----|--------|--------|--------|--------|---------|----|-------|
| TOTAL VOL. | 44 | 1201 | 236 | 607 | 2510 | 616 | 13 | 46 |
| MEAN | 44 | 171.6 | 118.0 | 86.7 | 193.1 | 154.0 | 13 | 23.0 |
| RANGE | — | 65-402 | 63-173 | 33-124 | 41-330 | 119-228 | — | 17-29 |
| NO. LIZARDS | 1 | 7 | 2 | 7 | 13 | 4 | 1 | 2 |

Phrynosoma m'calli Testis Volumes (65 mm S-V)

1961

Right Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|-----|------|-----|
| 34 | 107 | 72 | 61 | 144 | 131 | 19 | 13 |
| | 91 | 150 | 119 | 209 | 97 | | 6 |
| | 105 | | 97 | 214 | 162 | | |
| | 69 | | 67 | 96 | 205 | | |
| | 197 | | 93 | 205 | | | |
| | 80 | | 65 | 181 | | | |
| | 185 | | 31 | 47 | | | |
| | | | 312 | | | | |
| | | | 125 | | | | |
| | | | 188 | | | | |
| | | | 151 | | | | |
| | | | 256 | | | | |
| | | | 113 | | | | |
| | | | 193 | | | | |

| | | | | | | | | |
|-------------|----|--------|--------|--------|--------------------------------|--------|----|------|
| TOTAL VOL | 34 | 834 | 222 | 533 | 2434 | 595 | 19 | 19 |
| MEAN | 34 | 119.1 | 111.0 | 76.1 | 173.9 | 148.8 | 19 | 9.5 |
| RANGE | — | 69-197 | 72-150 | 31-119 | 47-256 | 97-205 | — | 6-13 |
| NO. LIZARDS | 1 | 7 | 2 | 7 | ¹⁴
10 | 4 | 1 | 2 |

Phrynosoma m'calli Testis Volumes (65mm S-V)

1962

Left Testis

| APR | MAY | JUN | JUL | AUG |
|-----|-----|-----|-----|-----|
| 246 | 41 | 237 | 251 | 141 |
| 315 | 97 | 128 | 173 | 246 |
| 116 | 99 | | 134 | 147 |
| 169 | 150 | | | 205 |
| | 48 | | | 185 |
| | 87 | | | 166 |
| | 131 | | | 128 |
| | 193 | | | 105 |
| | 205 | | | |

TOTAL VOL 846 1051 365 558 1323

MEAN 211.5 116.8 182.5 186.0 165.4

RANGE 116-315 41-205 128-237 134-251 105-246

NO. LIZARDS 4 9 2 3 8

Right Testis

| APR | MAY | JUN | JUL | AUG |
|-----|-----|-----|-----|-----|
| 263 | 30 | 232 | 214 | 131 |
| 266 | 105 | 138 | 154 | 242 |
| 121 | 91 | | 138 | 158 |
| ~ | 138 | | | 173 |
| | 61 | | | 158 |
| | 65 | | | 138 |
| | 134 | | | 113 |
| | 184 | | | 105 |
| | 150 | | | |

TOTAL VOL 650 958 370 506 1218

MEAN 216.7 106.4 185.0 168.7 152.3

RANGE 121-266 30-184 138-232 138-214 105-242

NO. LIZARDS 3 9 2 3 8

Phrynosoma m'calli. (65⁺ mm, S.V) Testis Vol.
1963

Left Testis

Apr. May
— 141
104 105

ΣX 104 246

N 1 2

\bar{X} 104 123

Range 104 105-141

Right testis

Apr. May.
104 138
24

ΣX 104 162

N 1 2

\bar{X} 104 81

Range — 24-38

1964

Aug Oct
147 6

Left
Testis

Right
Testis

121 4

1967

Left Testis

| Apr | May | May | June | July | Aug |
|-----|-----|-----|------|------|-----|
| 151 | 110 | 42 | 124 | 223 | 162 |
| 131 | 73 | 222 | 131 | 173 | 192 |
| 141 | 193 | 113 | 151 | 162 | 210 |
| 102 | 292 | 95 | 141 | 210 | 154 |
| 63 | 97 | 89 | 185 | 266 | |
| 122 | 169 | 120 | 185 | 113 | |
| 154 | 67 | 53 | 269 | 87 | |
| 162 | 110 | 105 | 237 | | |
| 128 | 69 | 162 | 105 | | |
| 120 | 24 | 354 | 63 | | |
| 69 | 97 | 141 | 61 | | |
| 57 | 134 | 21 | 128 | | |

~~Right Testis~~ 173

~~Apr. May~~ 96

~~128~~

1967

ΣX N

1968

Apr.

251

320

141

Apr. 1400 12

May 2931 24

June 2059 14

July 1234 7

Aug 668 4

Testis Volumes, *Phrynosoma m'calli* Adults (65+ mm SL)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

||

(

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(

(

Testis Volumes, Phrynosoma m'calli Immature (<65 mm SVL)

Left testis larger

N

Right testis larger

III

Testes same size

II

Phrynosoma m'calli Adult (65+ mm S-L)

(15)

Left testis anterior

I

(16)

Right testis anterior

|||||

(17)

Testes even

|||||

Phrynosoma m'calli Immature (< 65 mm S-L)

(15)

Left testis anterior

I

(16)

Right testis anterior

III

(17)

Testes even

(

(

(

Phrynosoma m'calli Adult ♀ (65⁺ mm. S-V)

(19)

LEFT OVARY ANTERIOR

////

(18)

RIGHT OVARY ANTERIOR

///X///X///

(20)

OVARIES EVEN

///X///X///X///

1

2

3

Phrynosoma m'calli

SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO.

SIZE IN mm.

21 17.5 x 10.0; 17.1 x 10.4

23 18.8 x 11.9; 18.4 x 11.6

95 15.0 x 9.1; 16.4 x 10.5

98 14.6 x 10.5; 14.6 x 10.4; 14.5 x 11.2

106 14.5 x 10.9; 14.9 x 9.9; 15.0 x 10.0

109 15.8 x 10.6; 14.8 x 10.4; 14.6 x 10.8

116 15.4 x 11.2; 14.4 x 10.3; 13.1 x 9.4; 13.6 x 10.3

118 16.9 x 10.8; 17.8 x 11.0

126 16.6 x 10.8; 14.2 x 11.9

130 15.9 x 10.4; 15.4 x 10.0

171 17.2 x 11.3; 17.4 x 11.5

214 17.3 x 11.2; 18.3 x 11.0

$N = 29$

$\Sigma X = 460.0 \times 309.3$

$\bar{X} = 15.9 \times 10.7 \text{ mm}$

SIZE IN mm.

16.5 x 10.2; 17.8 x 9.5

19.2 x 12.1; 18.7 x 12.1; 20.0 x 12.3

17.2 x 9.3; 15.0 x 10.0; 15.3 x 10.2; 16.1 x 9.0

15.1 x 10.7; 14.9 x 10.6; 14.8 x 9.0

15.5 x 10.9; 14.8 x 10.0; 14.6 x 11.1; 14.0 x 10.0

14.3 x 10.6; 15.3 x 10.9; 16.4 x 11.0

13.3 x 10.5; 13.7 x 10.4; 14.4 x 10.3

16.4 x 10.0; 16.6 x 10.0; 15.3 x 9.3; 16.4 x 10.7

17.7 x 10.5; 15.7 x 10.4

16.3 x 9.8; 17.4 x 9.4

17.3 x 12.0; 18.2 x 11.7

17.2 x 10.9; 17.4 x 10.9

$N = 34$

$\Sigma X = 548.8 \times 356.3$

$\bar{X} = 16.1 \times 10.5 \text{ mm}$

1967 Lizard Nos.

315 16.1 x 9.7; 17.5 x 9.0; 17.0 x 10.5

17.8 x 11.4; 19.4 x 11.0

$N = 63$

$\Sigma X = 1008.8 \times 665.6$

$\bar{X} = 16.0 \times 10.6 \text{ mm}$

Range = 13.1 x 9.0 mm to 20.0 x 12.3 mm

Phrynosoma m'calli

OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1 III

2 ~~IIIIIIII~~ IIII

3 ~~IIIIIIII~~ IIII

4 ~~IIII~~ IIII

5 III

6

7

8

9

10

I

~~IIIIIIII~~ IIII

~~IIIIIIII~~ IIII

~~IIII~~ IIII

Phrynosoma m'calli
FAT BODIES

⑦

| MONTH | ADULT
(65+mm) | IMMATURE |
|----------|------------------|----------|
| | ♂ | ♀ |
| JAN. | | |
| FEB. | | |
| MAR. | | |
| APR. II | II | II |
| MAY III | III | |
| JUN. III | IIII | |
| JUL. III | IIII | |
| AUG. | II | |
| SEPT. | II | II |
| OCT. | | |
| NOV. | | |
| DEC. | | |

Phrynosoma m'calli Adult (65+ mm S-V)
(No. Eggs in ovary)

| | Left ovary | Right ovary |
|----|------------|-------------|
| 1 | I | |
| 2 | I | |
| 3 | | II |
| 4 | I | II |
| 5 | III | III |
| 6 | IIII | IIIIII |
| 7 | IIIIII | IIIIIIII |
| 8 | IIIIII | IIIIIIII |
| 9 | IIIIIIII | IIIIIIII |
| 10 | IIIIII | IIII |
| 11 | IIII | IIII |
| 12 | IIII | IIII |
| 13 | II | II |
| 14 | II | IIII |
| 15 | I | |
| 16 | | I |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

Phrynosoma m'calli Immature
(No. Eggs in Ovary)

| | Left ovary | Right ovary |
|----|------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

PHRYNOSOMA
PLATYRHINOS

PHRYNOSOMA
PHRYNOSOMA

Potentially Breeding Phrynosoma platyrhina ♂♂ (65 mm, --V)

(smallest ♂ = 62 mm)

(largest ♂ = 96 ")

| Date | # ♂ | No ♀ | Total | % ♂ |
|-----------|-----|------|-------|-----|
| Sept. '58 | 0 | 1 | 1 | 0 |
| Oct. | 0 | 1 | 1 | 0 |
| Apr. '59 | 1 | 0 | 1 | 100 |
| May | | | 0 | |
| June | 2 | 1 | 3 | 67 |
| July | | | 0 | |
| Aug. | 2 | 0 | 2 | 100 |
| Sept. | 0 | 1 | 1 | 0 |
| Mar. '60 | 0 | 3 | 3 | 0 |
| Apr. | 10 | 0 | 10 | 100 |
| May | 5 | 1 | 6 | 83 |
| June | 3 | 0 | 3 | 100 |
| July | 4 | 0 | 4 | 100 |
| Aug. | 2 | 1 | 3 | 67 |
| Apr. '61 | 1 | 0 | 1 | 100 |
| May | | | 0 | |
| June | 2 | 0 | 2 | 100 |
| July | 1 | 0 | 1 | 100 |
| Aug. | | | 0 | |
| Sept. | 1 | 0 | 1 | 100 |
| Apr. '62 | 2 | 0 | 2 | 100 |
| May | 5 | 1 | 6 | 83 |
| May '63 | 0 | 2 | 2 | 0 |
| Jun '63 | 1 | 1 | 2 | 50 |
| Sep. | 1 | 0 | 1 | 100 |
| Mar. '64 | 1 | 0 | 1 | 100 |
| Apr | 5 | 0 | 5 | 100 |

Totals, 1958-1961

| Month | # ♂ | No ♀ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Mar. | 0 | 3 | 3 | 0 |
| Apr. | 12 | 0 | 12 | 100 |
| May | 5 | 1 | 6 | 83 |
| June | 7 | 1 | 8 | 88 |
| July | 5 | 0 | 5 | 100 |
| Aug. | 4 | 1 | 5 | 80 |
| Sept. | 1 | 2 | 3 | 33 |
| Oct. | 0 | 1 | 1 | 0 |
| Total | | | 43 | |

Totals, 1958-1963

| Month | # ♂ | No ♀ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Mar. | 0 | 3 | 3 | 0 |
| Apr. | 12 | 0 | 12 | 100 |
| May | 10 | 4 | 14 | 71 |
| Jun | 8 | 2 | 10 | 80 |
| Jul. | 5 | 0 | 5 | 100 |
| Aug. | 4 | 1 | 5 | 80 |
| Sep. | 2 | 2 | 4 | 50 |
| Oct. | 0 | 1 | 1 | 0 |
| | | | 54 | |

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Phrynosoma platyrhinos (65+mm, SV)

Left Testis Volume - Summary 1958-1963

| Month | ΣX | N | \bar{X} |
|-------|-------------------------|----|-----------|
| Mar | 867 | 3 | 289.0 |
| Apr. | 5437 | 19 | 286.2 |
| May | 2165 | 11 | 196.8 |
| Jun | 1433
1433 | 10 | 143.3 |
| Jul | 1004 | 5 | 200.8 |
| Aug | 581 | 5 | 116.2 |
| Sep | 111 | 4 | 27.8 |
| Oct. | 45 | 1 | 45 |

(

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Phrynosoma platyrhinos - Testis volume (65⁺mm-SV)
1958

Left

| Sep | Oct |
|------------------|------------------|
| 22.57 | 45.16 |
| 23 | 45 |

| | | |
|------------|----|----|
| ΣX | 23 | 45 |
| \bar{X} | 23 | 45 |
| N | 1 | 1 |
| Range | — | — |

Right

| Sep | Oct |
|------------------|-----|
| 20.45 | |
| 20 | 45 |

| | | |
|------------|----|----|
| ΣX | 20 | 45 |
| \bar{X} | 20 | 45 |
| N | 1 | 1 |
| Range | — | — |

Phrynosoma platyrhina - Testis volume (65+mm S-V)

1959

Left

| Apr. | May | Jun | July | Aug | Sep. |
|------|-----|-----|------|-----|------|
| 8 | — | 19 | — | 113 | 7 |
| 97 | | 36 | | 171 | |
| | | 68 | | | |

| | | | | | | |
|------------|------|---|-------|---|---------|---|
| ΣX | 105 | — | 123 | — | 284 | 7 |
| \bar{X} | 52.5 | — | 41.0 | — | 142 | 7 |
| N | 2 | — | 3 | — | 2 | 1 |
| Range | 8-97 | — | 19-68 | — | 113-171 | — |

Right

| Apr | May | Jun | July | Aug | Sep. |
|-----|-----|-----|------|-----|------|
| 13 | — | 16 | — | 110 | 5 |
| 60 | | 36 | | 158 | |
| | | 75 | | | |

| | | | | | | |
|------------|-------|---|-------|---|---------|---|
| ΣX | 73 | — | 127 | — | 268 | 5 |
| \bar{X} | 36.5 | — | 42.3 | — | 134 | 5 |
| N | 2 | — | 3 | — | 2 | 1 |
| Range | 13-60 | — | 16-75 | — | 110-158 | — |

Phrynosoma platyrhinos - Testis volumes (65⁺mm-S-U)
1960

Left

| March | Apr | May | Jun | Jul | Aug | Σ |
|-------|------------|-----|-----|-----|-----|----------|
| 400 | 173 | 217 | 261 | 232 | 32 | |
| 282 | 479 | 34 | 309 | 169 | 85 | |
| 185 | 235 | 251 | 343 | 265 | 180 | |
| | 233 | | | 188 | | |
| | 381 | | | | | |
| | 443 | | | | | |
| | 450 | | | | | |
| | 320 | | | | | |
| | 582 | | | | | |
| | 208 | | | | | |
| | 138 | | | | | |
| | 242 | | | | | |
| | 261 | | | | | |
| | <u>429</u> | | | | | |

| | | | | | | |
|------------|---------|------------------|--------|---------|---------|--------|
| ΣX | 867 | 4574 | 502 | 913 | 854 | 297 |
| \bar{X} | 289.0 | 326.7 | 167.3 | 304.3 | 213.5 | 99.0 |
| N | 3 | 14 | 3 | 3 | 4 | 3 |
| Range | 185-400 | 138-582 | 34-251 | 261-343 | 169-265 | 32-180 |

Right

| Mar | Apr | May | Jun | Jul | Aug |
|-----|------------|-----|-----|-----|-----|
| 264 | 209 | 296 | 188 | 588 | 43 |
| 309 | 421 | 24 | 251 | 184 | 101 |
| 181 | 197 | 209 | 326 | 242 | 151 |
| | 332 | | | 166 | |
| | 356 | | | | |
| | 326 | | | | |
| | 309 | | | | |
| | 448 | | | | |
| | 165 | | | | |
| | 99 | | | | |
| | 256 | | | | |
| | 280 | | | | |
| | <u>381</u> | | | | |

| | | | | | | |
|------------|---------|--------|--------|---------|---------|--------|
| ΣX | 754 | 3779 | 529 | 765 | 1180 | 295 |
| \bar{X} | 251.3 | 290.7 | 176.3 | 255.0 | 295.0 | 98.3 |
| N | 3 | 13 | 3 | 3 | 4 | 3 |
| Range | 181-309 | 99-448 | 24-296 | 188-326 | 166-588 | 43-151 |

Phrynosoma platyrhinos - Testis volume (65⁺mm, S-V)
1961

Left

| Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----------|-----|-----|-----|
| 141 | — | 128
84 | 150 | — | 34 |

| | | | | | | |
|------------|-----|---|--------|-----|---|----|
| ΣX | 141 | — | 212 | 150 | — | 34 |
| \bar{X} | 141 | — | 106 | 150 | — | 34 |
| N | 1 | — | 2 | 1 | — | 1 |
| Range | — | — | 24-128 | — | — | — |

Right

| Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----------|-----|-----|-----|
| 131 | — | 104
89 | 118 | — | 34 |

| | | | | | | |
|------------|-----|---|--------|-----|---|----|
| ΣX | 131 | — | 193 | 118 | — | 34 |
| \bar{X} | 131 | — | 96.5 | 118 | — | 34 |
| N | 1 | — | 2 | 1 | — | 1 |
| Range | — | — | 89-104 | — | — | — |

Phrynosoma platyrhinos - Testis volume (65⁺mm, 5-V)
1962

Left

| Apr | May |
|----------------|-----|
| 280 | 280 |
| 337 | 205 |
| 280 | 251 |
| 205 | 407 |
| | 401 |
| | 11 |

| | | |
|------------|---------|--------|
| ΣX | 617 | 1555 |
| \bar{X} | 308.5 | 259.2 |
| N | 2 | 6 |
| Range | 280-337 | 11-407 |

Right

| Apr | May |
|-----|-----|
| 256 | 237 |
| 347 | 185 |
| | 196 |
| | 320 |
| | 266 |
| | 16 |

| | | |
|------------|---------|------------------|
| ΣX | 603 | 1220 |
| \bar{X} | 301.5 | 203.3 |
| N | 2 | 6 |
| Range | 256-347 | 16-320 |

Phrynosoma platyrhinos - Testis volume (65⁺mm, S-V)
1963

Left

| May | Jun | — | Sep |
|-----|-----|---|-----|
| 52 | 151 | — | 47 |
| 56 | 34 | | |

| | | | | |
|------------|-------|--------|---|----|
| ΣX | 108 | 185 | | 47 |
| \bar{X} | 54 | 92.5 | | 47 |
| N | 2 | 2 | | 1 |
| range | 52-56 | 34-151 | — | — |

Right

| May | Jun | — | Sep |
|-----|-----|---|-----|
| 67 | 125 | | 45 |
| 57 | 24 | | |

| | | | | |
|------------|-------|--------|---|----|
| ΣX | 124 | 149 | | 45 |
| \bar{X} | 62 | 74.5 | | 45 |
| N | 2 | 2 | | 1 |
| range | 57-67 | 24-125 | — | — |



Testis Volumes, *Phrynosoma platyrhinos* Adults (0.5+ mm SL - 1)

Left testis larger

|||||

Right testis larger

||||

Testes same size

||

Testis Volumes, *Phrynosoma platyrhinos* Immature (< 65 mm SL)

Left testis larger

||

Right testis larger

||

Testes same size



Phrynosoma platyrhinos Adult (65+ mm SL)

(15)

Left testis anterior

I

(16)

Right testis anterior

IIIIII

(17)

Testes even

III



Phrynosoma platyrhinos Immature (< 60 mm SL)

(15)

Left testis anterior

(16)

Right testis anterior

(17)

Testes even



Phrynosoma platyrhinos Adults (65+ mm S-U)

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
|-----|------------|-------------|

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

I

III

III

I

I

III

II

I



Phrynosoma platyrhinos Immature

No. Left ovary Right ovary

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20



Phrynosoma slatyrhinos

EGGS IN OVIDUCT

LEFT

RIGHT

| VO. of EGGS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|-------------|---|---|---|---|---|---|---|---|---|---|----|--|---|---|---|---|---|---|---|---|---|---|----|--|
| VO. of TAG | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | | ✓ | | | | | | | | | | | | | | ✓ | | | | | | | |
| 57 | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | |
| 63 | | | | | ✓ | | | | | | | | | | | ✓ | | | | | | | | |
| 69 | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | | | |
| 71 | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | |

Phrynosoma platyrhinos

SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO.

SIZE IN mm.

33 16.8 x 9.7 17.0 x 8.0

57 15.6 x 10.0 16.4 x 10.0 16.9 x 9.7

63 13.8 x 9.5 14.0 x 10.0 13.8 x 9.5 13.7 x 9.7

69 17.8 x 11.8

71 15.1 x 11.0 14.5 x 11.4 16.3 x 11.2

$N = 13$

$\Sigma X = 201.7 \times 131.5$

$\bar{X} = 15.5 \times 10.1 \text{ mm}$

SIZE IN mm

16.0 x 9.6 17.0 x 10.3 17.1 x 10.0 16.6 x 10.4

15.9 x 10.4 15.7 x 10.5 16.5 x 9.8

13.6 x 10.4 14.8 x 9.7 15.1 x 10.6

16.5 x 11.0 16.4 x 10.8 16.1 x 10.7 17.2 x 10.0

16.7 x 11.0 15.3 x 11.6 14.3 x 10.5 15.8 x 11.8

$N = 18$

$\Sigma X = 286.6 \times 189.2$

$\bar{X} = 15.9 \times 10.5 \text{ mm}$

$N = 31$

$\Sigma X = 488.3 \times 320.7$

$\bar{X} = 15.8 \times 10.3 \text{ mm}$

Range 13.6 x 8.0 mm to 17.8 x 11.8 mm

Phrynosoma platyrhinos

OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1

21

3

41

51

6

7

8

9

10

1

11

Phrynosoma platyrhinos
FAT BODIES

(7)

| MONTH | ♂ | ADULT
(65mm.) | ♀ | ♂ | IMMATURE | ♀ |
|-----------|---|------------------|---|---|----------|---|
| JAN. | | | | | | |
| FEB. | | | | | | |
| MAR. II | | I | | | | |
| APR. IIII | | | | | | |
| MAY III | | I | | | | |
| JUN. IIII | | II | | | | |
| JUL. IIII | | I | | | | |
| AUG. IIII | | III | | | | |
| SEPT. I | | I | | | | |
| OCT. | | I | | | | |
| NOV. | | | | | | |
| DEC. | | | | | | |

SAIROMA IUS ORFSII

SAUROMAIUS OBESUS

Potential Breeders, Sauromalus obesus ♂♂ (170+mm, S-V)

(Smallest ♂ = 170 mm)

(largest ♂ = 210 ")

Totals, 1959-1961

| Date | # ♂ | No ♂ | Total | % ♂ |
|----------|-----|------|-------|-----|
| Apr. '59 | 0 | 1 | 1 | 0 |
| May | 3 | 1 | 4 | 75 |
| Apr. '60 | 0 | 1 | 1 | 0 |
| May | 3 | 0 | 3 | 100 |
| June | 9 | 0 | 9 | 100 |
| July | 0 | 2 | 2 | 0 |
| Aug. | 0 | 2 | 2 | 0 |
| May '61 | 0 | 1 | 1 | 0 |
| June | 2 | 1 | 3 | 67 |
| July | | | 0 | |
| Aug. | 0 | 2 | 2 | 0 |
| Apr. '62 | 3 | 0 | 3 | 100 |
| May | 5 | 0 | 5 | 100 |
| May '63 | 0 | 3 | 3 | 0 |

| Month | # ♂ | No ♂ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Apr. | 0 | 2 | 2 | 0 |
| May | 6 | 2 | 8 | 75 |
| June | 11 | 1 | 12 | 91 |
| July | 0 | 2 | 2 | 0 |
| Aug. | 0 | 4 | 4 | 0 |
| Total | | | 28 | |

Totals, 1959-1963

| | | | | |
|------|----|---|-----------|----|
| Apr. | 3 | 2 | 5 | 60 |
| May | 11 | 5 | 16 | 69 |
| Jun | 11 | 1 | 12 | 92 |
| Jul. | 0 | 2 | 2 | 0 |
| Aug | 0 | 4 | 4 | 0 |
| | | | <u>39</u> | |

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(

Testis Volumes, *Sauromalus obesus* Adults (170+mm S-V)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

||

Testis Volumes, *Sauromalus obesus* Immature (< 170 mm SL)

Left testis larger

I

Right testis larger

II

Testes same size



Sauromalus obesus Adults (170+ mm S-V)

)

⑮
Left testis anterior

I

⑯

Right testis anterior

II

⑰

Testes even

III

)

)

Sauromalus obesus Immature (<170 mm S-V)

(15)
Left testis anterior

(16)
Right testis anterior

(17)
Testes even

C

C

C

Sauromalus obesus Adult (120+mm S-V)

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | I |
| 11 | III | II |
| 12 | I | |
| 13 | II | I |
| 14 | II | I |
| 15 | I | III |
| 16 | I | I |
| 17 | III | I |
| 18 | II | I |
| 19 | I | II |
| 20 | | I |
| 21 | I | I |
| 22 | I | I |
| 23 | | I |
| 24 | | |
| 25 | | I |
| 26 | I | |
| 27 | | II |
| 28 | | |
| 29 | | |
| 30 | I | |
| 31 | | |



Sauromalus obesus Immature

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |

Sceloporus
graciosus

Sceloporus
graciosus

SCORPION SURVEY DATE SURVEYED

| MONTH | MMP | | | FD | | | |
|-------|-----|----|-------|-----|-----|-------|--------|
| | ♂ | ♀ | Total | ♂ | ♀ | Total | |
| JAN | - | - | - | - | - | - | |
| FEB | - | - | - | - | - | - | |
| MAR | - | - | - | - | - | - | |
| APR | 2 | - | 2 | 31 | 12 | 51 | |
| MAY | 1 | 1 | 2 | 68 | 51 | 119 | |
| JUN | 2 | 1 | 3 | 71 | 34 | 105 | |
| JUL | 14 | 5 | 19 | 57 | 65 | 116 | |
| AUG | 2 | 2 | 4 | 58 | 50 | 108 | |
| SEP | 1 | 1 | 2 | 27 | 13 | 40 | |
| OCT | - | - | - | - | - | - | |
| NOV | - | - | - | - | - | - | |
| DEC | - | - | - | - | - | - | |
| | 22 | 10 | 32 | 284 | 215 | 499 | TOTALS |

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11

~~7/25~~

~~7/19~~

7/25

~~7/25~~

~~7/25~~

4/23 - 7/25

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11

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11

Potential Breeders, Sceloporus graciosus ♂♂ (55+mm, S-V).
So. Calif.

| Date | # ♂ | No ♂ | Total | % ♂ |
|----------|-----|------|-------|------------------|
| May '59 | 10 | 1 | 11 | 91 91 |
| Jul '59 | 0 | 2 | 2 | 0 |
| Aug. | 0 | 7 | 7 | 0 |
| Sep. | 0 | 9 | 9 | 0 |
| May '60 | 3 | 0 | 3 | 100 |
| Jul '60 | 0 | 5 | 5 | 0 |
| Apr '61 | 8 | 10 | 18 | 44 |
| May | 16 | 0 | 16 | 100 |
| Apr. '62 | 1 | 3 | 4 | 25 |
| May | 19 | 0 | 19 | 100 |
| Jun | 27 | 1 | 28 | 96 |
| Jul. | 11 | 7 | 18 | 61 |
| Aug | 0 | 12 | 12 | 0 |
| Apr. '63 | 0 | 14 | 14 | 0 |
| May | 16 | 4 | 20 | 80 |
| Jun | 14 | 0 | 14 | 100 |
| Jul. | 22 | 2 | 24 | 92 |
| Aug | 0 | 28 | 28 | 0 |
| Sep - | 0 | 13 | 13 | 0 |

Totals, '59 - '63

| Month | # ♂ | No ♂ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Apr | 9 | 27 | 36 | 25 |
| May | 64 | 5 | 69 | 93 |
| Jun | 41 | 1 | 42 | 98 |
| Jul. | 33 | 16 | 49 | 67 |
| Aug. | 0 | 47 | 47 | 0 |
| Sep. | 0 | 22 | 22 | 0 |
| Total | | | 265 | |

Sceloporus graciosus Dissected for Reproduction Study $\sigma = 55^+ \text{mm (S-V)}$ $\text{♀} = 50^+ \text{mm (S-V)}$

| | <u>1958-1962</u> | | | <u>1963</u> | | |
|------------|-----------------------|--------------------|--------------------|-----------------------|--------------------|--------------------|
| | <u>San Bernardino</u> | <u>San Gabriel</u> | <u>San Jacinto</u> | <u>San Bernardino</u> | <u>San Gabriel</u> | <u>San Jacinto</u> |
| April | | | | | | |
| σ | 17 | 9 | — | — | — | 15 |
| ♀ | 7 | 5 | — | — | — | — |
| May | | | | | | |
| σ | 12 | 11 | 27 | 4 | 10 | 6 |
| ♀ | 4 | 6 | 28 | 1 | 9 | 5 |
| June | | | | | | |
| σ | — | 15 | 12 | 14 | — | — |
| ♀ | — | 6 | 9 | 9 | — | — |
| July | | | | | | |
| σ | — | 22 | 2 | 6 | 11 | 10 |
| ♀ | — | 34 | — | 4 | 16 | 10 |
| Aug. | | | | | | |
| σ | 15 | 8 | 3 | 12 | 10 | 10 |
| ♀ | 20 | 4 | 6 | 9 | 6 | 5 |
| Sept. | | | | | | |
| σ | 9 | 2 | 1 | 11 | 4 | — |
| ♀ | 4 | 2 | 1 | 4 | 3 | — |

Sceloporus graciosus (♀♀)

+ = ova accumulating yolk

- = " not " " "

San Bernardino Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|-------------|-------------|-------------|
| Apr. | | | +(9th) | | |
| May | + | | | | + |
| June | | | | | + |
| July | | | | | - |
| Aug. | | | | - | - |
| Sept. | | | | | - |

Summary

| | |
|-------|-----------------------|
| Apr. | + |
| May | + |
| June | + |
| July | - S.B, S.G.
+ S.J. |
| Aug. | - |
| Sept. | - |

San Gabriel Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|-------------|-------------|-------------|
| Apr. | | | | +(21st) | |
| May | | | | + | + |
| June | | | | + | |
| July | | | | - | - |
| Aug. | | | | | - |
| Sept. | | | | | - |

San Jacinto Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|-------------|-------------|-------------|
| Apr. | | | | | |
| May | | + | + | + | + |
| June | | | | + | |
| July | | | | | + |
| Aug. | | | | | - |
| Sept. | | | | | |

Sceloporus graciosus (♀♀)

| <u>Lizard
No.</u> | <u>Mountain
Range</u> | <u>Date
Caught</u> | <u>No. of Eggs</u> | |
|-----------------------|---------------------------|------------------------|--------------------|-------------------|
| | | | <u>L. Oviduct</u> | <u>R. Oviduct</u> |
| 24 | S. Bern. | 5/17/59 | 2 | 3 |
| 25 | " | " | 2 | 3 |
| 215 | S. Jac. | 6/3/62 | 3 | 3 |
| 220 | " | " | 3 | 3 |
| 226 | " | " | 3 | 2 |
| 234 | S. Gab. | 6/26/62 | 2 | 2 |
| 236 | " | " | 2 | 2 |
| 239 | " | " | 2 | 3 |
| 375 | S. Bern. | 6/5/63 | 3 | 3 |
| 382 | " | " | 2 | 1 |
| 390 | " | " | 2 | 3 |
| 391 | " | " | 3 | 2 |
| 412 | S. Jac. | 7/16/63 | 1 | 1 |
| 420 | " | " | 1 | 2 |
| 426 | " | " | 2 | 2 |
| 444 | S. Gab. | 7/18/63 | 1 | 2 |
| 446 | " | " | 1 | 2 |
| 447 | " | " | 2 | 2 |
| 448 | " | " | 2 | 3 |

Sceloporus graciosus (♂♂)

+ = sperm present at terminal end of vas deferens

- = " not " " " " " " "

San Bernardino Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|---|------------------------------|-------------|
| Apr. | | | (9 th)
+ (23 rd) | | |
| May | + | | | few +
(12 th) | |
| June | | | | + | |
| July | | | | + | |
| Aug. | - | | | - | - |
| Sept. | - | | | | - |

Summary

| | |
|------------|---|
| Early Apr. | - |
| Late Apr. | + |
| May | + |
| June | + |
| July | + |
| Aug. | - |
| Sept. | - |

San Gabriel Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|-------------|--|-------------|
| Apr. | | | | (21 st)
+ (24 th) | |
| May | | | | + | + |
| June | | | | + | |
| July | | - | | few + | + |
| Aug. | - | | | | - |
| Sept. | - | | | | - |

San Jacinto Mts.

| | <u>1959</u> | <u>1960</u> | <u>1961</u> | <u>1962</u> | <u>1963</u> |
|-------|-------------|-------------|-------------|-------------|----------------------|
| Apr. | | | | | -(24 th) |
| May | | + | + | + | + |
| June | | | | + | |
| July | | | | | + |
| Aug. | | | | | - |
| Sept. | | | | | |

Sceloporus graciosus (55+ mm, S-U)

Left Testis volume - Summary 1954-1963.

| Month | ΣX | N | \bar{X} |
|-------|------------|-----|-----------|
| Apr. | 7401 | 38 | 194.8 |
| May | 13728 | 68 | 201.9 |
| Jun | 4586 | 40 | 114.6 |
| Jul. | 1201 | 48 | 25.0 |
| Aug | 2436 | 53 | 46.0 |
| Sep. | 2811 | 25 | 112.4 |

Sceloporus graciosus Testis Volumes (55⁺mm SV)

1958

Left Testis

AUG SEPT

132 123

33 78

32

TOTAL VOL 197 201

MEAN 65.7 100.5

RANGE 32-132 78-123

NO. LIZARDS 3 2

AUG SEPT

82 135

20 65

21

Right Testis

TOTAL VOL 123 200

MEAN 41.0 100.0

RANGE 20-82 65-135

NO. LIZARDS 3 2

1

1
2
3
4
5
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93
94
95
96
97
98
99
100

1

1

Sceloporus graciosus Testis Volumes (55⁺ mm S-V)

1959
Left Testis

| MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|------|
| 115 | — | 7 | 78 | 108 |
| 123 | | 15 | 91 | 67 |
| 102 | | | 118 | 137 |
| 149 | | | 33 | 69 |
| 133 | | | 71 | 88 |
| 113 | | | 20 | 117 |
| 118 | | | 16 | 59 |
| 55 | | | 53 | 47 |
| 102 | | | 13 | 143 |
| 229 | | | 36 | 16 |

| | | | | | |
|-------------|--------|---|------|--------|--------|
| TOTAL VOL | 1239 | 0 | 22 | 529 | 851 |
| MEAN | 123.9 | 0 | 11.0 | 52.9 | 85.1 |
| RANGE | 55-229 | 0 | 7-15 | 13-118 | 16-143 |
| NO. LIZARDS | 10 | 0 | 2 | 10 | 10 |

Right Testis

| | | | | |
|-----|---|----|-----|-----|
| 137 | + | 11 | 78 | 131 |
| 118 | | 11 | 107 | 84 |
| 105 | | | 131 | 115 |
| 132 | | | 35 | 73 |
| 145 | | | 76 | 75 |
| 104 | | | 16 | 69 |
| 165 | | | 13 | 53 |
| 61 | | | 63 | 61 |
| 125 | | | 17 | 157 |
| 179 | | | 24 | 25 |

| | | | | | |
|-------------|--------|---|------|--------|--------|
| TOTAL VOL | 1271 | 0 | 22 | 560 | 843 |
| MEAN | 127.1 | 0 | 11.0 | 56.0 | 84.3 |
| RANGE | 61-179 | 0 | — | 13-131 | 25-157 |
| NO. LIZARDS | 10 | 0 | 2 | 10 | 10 |

Sceloporus graciosus Testis Volumes (55⁺ mm S-V)

1960
Left Testis

| MAY | JUN | JUL |
|-----|-----|-----|
| 176 | — | 12 |
| 281 | | 38 |
| 240 | | 11 |
| | | 11 |
| | | 111 |

| | | | |
|-------------|---------|---|--------|
| TOTAL VOL | 697 | 0 | 183 |
| MEAN | 232.3 | 0 | 36.6 |
| RANGE | 176-281 | 0 | 11-111 |
| NO. LIZARDS | 3 | 0 | 5 |

Right Testis

| MAY | JUN | JUL |
|-----|-----|-----|
| 233 | — | 12 |
| 235 | | 24 |
| 220 | | 9 |
| | | 41 |
| | | 55 |

| | | | |
|-------------|---------|---|------|
| TOTAL VOL | 688 | 0 | 191 |
| MEAN | 229.3 | 0 | 38.2 |
| RANGE | 220-235 | 0 | 9-55 |
| NO. LIZARDS | 3 | 0 | 5 |

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Sceloporus graciosus Testis Volumes (55 mm S-V)

1961

~~Left~~ Testis

APR MAY

211 167

165 184

178 240

205 147

149 217

232 286

217 235

200 203

205 312

154 288

203 183

263 252

266 361

220 217

153 273

220 153

323

254

TOTAL VOL 3818 3718

MEAN 212.1 232.4

RANGE 149-323 147-361

NO. LIZARDS 18 16

Sceloporus graciosus Testis Volumes (55⁺mm S-V)

1961
Right Testis

| APR | MAY |
|-----|-----|
| 176 | 134 |
| 167 | 179 |
| 157 | 208 |
| 246 | 120 |
| 101 | 251 |
| 286 | 222 |
| 220 | 193 |
| 171 | 210 |
| 125 | 265 |
| 149 | 208 |
| 222 | 208 |
| 217 | 196 |
| 188 | 208 |
| 228 | 280 |
| 249 | 222 |
| 187 | 124 |
| 246 | |
| 238 | |

TOTAL VOL 3573 3228

MEAN 198.5 201.8

RANGE 101-286 120-280

NO. LIZARDS 18 16

Sceloporus graciosus Testis Volumes (55⁺mm S-V)

1962

Left Testis

| APR | MAY | JUN | JUL | AUG |
|-----|-----|-----|-----|-----|
| 111 | 157 | 124 | 10 | 42 |
| 198 | 213 | 132 | 11 | 57 |
| 149 | 157 | 193 | 20 | 44 |
| 222 | 129 | 203 | 22 | 32 |
| 328 | 173 | 111 | 18 | 67 |
| 256 | 244 | 104 | 8 | 73 |
| | 168 | 149 | 27 | 94 |
| | 208 | 155 | 11 | 67 |
| | 208 | 121 | 11 | 30 |
| | 208 | 116 | 24 | 42 |
| | 168 | 235 | 22 | 63 |
| | 153 | 179 | 13 | 51 |
| | 188 | 53 | 11 | |
| | 176 | 102 | 32 | |
| | 308 | 51 | 7 | |
| | 259 | 68 | 20 | |
| | 259 | 53 | 13 | |
| | 252 | 111 | | |
| | 222 | 67 | | |

149

102

70

111

105

57

93

39

TOTAL VOL

MEAN

RANGE

NO. LIZARDS

| APR | MAY | JUN | JUL | AUG |
|---------|---------|--------|------|------------------|
| 1264 | 3850 | 3053 | 280 | 662 |
| 210.7 | 202.6 | 113.1 | 16.5 | 55.2 |
| 111-328 | 129-308 | 39-235 | 7-27 | 30-97 |
| 6 | 19 | 27 | 17 | 12 |

Sceloporus graciosus Testis Volumes (55th mm S-V)

1962
Right Testis

| APR | MAY | JUN | JUL | AUG |
|-----|-----|-----|-----|-----|
| 130 | 200 | 139 | 7 | 53 |
| 184 | 210 | 145 | 12 | 47 |
| 121 | 198 | 205 | 18 | 33 |
| 208 | 128 | 131 | 24 | 24 |
| 302 | 150 | 154 | 15 | 59 |
| 280 | 213 | 122 | 8 | 57 |
| | 158 | 141 | 19 | 104 |
| | 180 | 128 | 9 | 66 |
| | 246 | 123 | 11 | 42 |
| | 222 | 135 | 19 | 41 |
| | 108 | 203 | 18 | 60 |
| | 149 | 193 | 13 | 38 |
| | 182 | 51 | 16 | |
| | 211 | 81 | 25 | |
| | 334 | 53 | 7 | |
| | 214 | 76 | 13 | |
| | 217 | 48 | 11 | |
| | 220 | 109 | | |
| | 230 | 67 | | |
| | | 120 | | |
| | | 82 | | |
| | | 78 | | |
| | | 105 | | |
| | | 118 | | |
| | | 53 | | |
| | | 90 | | |
| | | 53 | | |

| | APR | MAY | JUN | JUL | AUG |
|-------------|---------|---------|--------|------|--------|
| TOTAL VOL. | 1225 | 3770 | 3003 | 245 | 624 |
| MEAN | 204.2 | 198.4 | 111.2 | 14.4 | 52.0 |
| RANGE | 121-302 | 109-334 | 48-205 | 7-25 | 24-104 |
| NO. LIZARDS | 6 | 19 | 27 | 17 | 12 |

Sceloporus graciosus - Testis volume (55+mm, S-V)

1963

Left Testis

| Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----|-----|-----|-----|
| 200 | 208 | 111 | 13 | 42 | 146 |
| 165 | 176 | 122 | 40 | 24 | 161 |
| 165 | 184 | 105 | 11 | 20 | 131 |
| 188 | 150 | 111 | 44 | 84 | 171 |
| 118 | 249 | 108 | 42 | 69 | 55 |
| 128 | 230 | 118 | 8 | 28 | 145 |
| 168 | 198 | 169 | 34 | 36 | 150 |
| 184 | 268 | 107 | 18 | 6 | 223 |
| 182 | 308 | 102 | 52 | 62 | 188 |
| 198 | 273 | 105 | 42 | 42 | 85 |
| 157 | 200 | 132 | 16 | 30 | 46 |
| 154 | 188 | 135 | 45 | 17 | 121 |
| 158 | 230 | 108 | 36 | 6 | 137 |
| 149 | 191 | | 78 | 16 | |

236

176

208

121

179

238

58

11

21

20

38

16

32

15

16

10

17

13

20

6

11

16

~~16~~

77

70

78

16

81

82

55

24

Apr

May

Jun

Jul

Aug

Sep.

2319

4224

~~1533~~

716

1048

1759

14

20

13

24

~~28~~

13

167.3

211.0

117.9

29.8

37.4

135.3

age

Sceloporus graciosus - Testis volume (55⁺, 5-1)

1963

Right Testis

| Apr | May | Jun | Jul | Aug | Sep. |
|-----|-----|-----|-----|-----|------|
| 149 | 217 | 104 | 13 | 59 | 123 |
| 124 | 269 | 139 | 33 | 19 | 104 |
| 200 | 235 | 120 | 8 | 26 | 120 |
| 208 | 178 | 128 | 44 | 77 | 184 |
| 121 | 328 | 140 | 20 | 81 | 50 |
| 149 | 246 | 128 | 13 | 28 | 121 |
| 149 | 203 | 193 | 53 | 30 | 164 |
| 149 | 269 | 120 | 30 | 6 | 186 |
| 203 | 286 | 132 | 42 | 42 | 154 |
| 149 | 278 | 139 | 43 | 39 | 83 |
| 150 | 269 | 120 | 13 | 30 | 24 |
| 149 | 203 | 137 | 31 | 17 | 139 |
| 139 | 258 | 108 | 39 | 6 | 107 |
| 147 | 162 | | 78 | 8 | |
| | 263 | | 75 | 22 | |
| | 193 | | 8 | 9 | |
| | 229 | | 19 | 16 | |
| | 188 | | 16 | 5 | |
| | 182 | | 26 | 10 | |
| | 246 | | 15 | 11 | |
| | | | 38 | 57 | |
| | | | 13 | 78 | |
| | | | 18 | 55 | |
| | | | 11 | 13 | |
| | | | | 61 | |
| | | | | 81 | |
| | | | | 38 | |
| | | | | 24 | |

| Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----|-----|-----|-----|
| 14 | 20 | 13 | 24 | 28 | 13 |

ΣX
N
X
range

Sceloporus graciosus
FAT BODIES
⑦

| MONTH | ADULT | | IMMATURE | |
|-------|---------------|---------------|----------|---|
| | (♂
55+mm.) | (♀
50+mm.) | ♂ | ♀ |
| JAN. | | | | |
| FEB. | | | | |
| MAR. | | | | |
| APR. | 52 | | | |
| MAY | 70 | 5 | | / |
| JUN. | | 5 | / | / |
| JUL. | 65 | 20 | | |
| AUG. | 51 | | / | / |
| SEPT. | 13 | | / | / |
| OCT. | | | | |
| NOV. | | | | |
| DEC. | | | | |

Testis Volumes, *Sceloporus graciosus* Adults (55+ mm S-V)

Left testis larger

|||||

|||||

Right testis larger

|||||

Testes same size

|||||

Testis Volumes, *Sceloporus graciosus* Immature (< 65 mm SL)

Left testis larger

||||

Right testis larger

||||

Testes same size

||

Sceloporus graciosus Adults (55+ mm S-V)

(15)
Left testis anterior

(16)
Right testis anterior

(17)
Testes even

|||||
|||||
|||||

(

(

(

Sceloporus graciosus Immature (<50 mm SL)

(15)

Left testis anterior

(16)

Right testis anterior

|||||

(17)

Testes even

Sceloporus graciosus Adult ♂ (55+ mm S-V)

| | B | B1 | B2 | B3 |
|-----|---|----|----|----|
| Jan | | | | |
| Feb | | | | |
| Mar | | | | |
| Apr | | | | |
| May | | | | |
| Jun | | | | |
| Jul | | | | |
| Aug | | | | |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |

Sceloporus graciosus Immature

| | B | B1 | B2 | B3 |
|-----|----|----|---------|----|
| Jan | | | | |
| Feb | | | | |
| Mar | | | | |
| Apr | | | I | |
| May | | | II | |
| Jun | I | | II | |
| Jul | II | | III/III | |
| Aug | | | | |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |

(

(

(

Sceloporus graciosus Adult (50⁺ mm. S-V)

| ①⑨ | ①⑧ | ②⑦ |
|---------------------|----------------------|---------------|
| LEFT OVARY ANTERIOR | RIGHT OVARY ANTERIOR | OVARIES EVEN |
| | |

 |

Sceloporus graciosus

EGGS IN OVIDUCT

LEFT

RIGHT

| NO. of EGGS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|-------------|---|---|---|---|---|---|---|---|---|---|----|--|---|---|---|---|---|---|---|---|---|---|----|--|
| NO. of TAG | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | |
| 215 | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | |
| 220 | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | |
| 226 | | | | ✓ | | | | | | | | | | | ✓ | | | | | | | | | |
| 234 | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | |
| 236 | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | |
| 239 | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | |
| 375 | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | |
| 382 | | | ✓ | | | | | | | | | | | ✓ | | | | | | | | | | |
| 390 | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | |
| 391 | | | | ✓ | | | | | | | | | | | ✓ | | | | | | | | | |
| 412 | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | | |
| 420 | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | | |
| 426 | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | |
| 444 | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | | |
| 446 | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | | |
| 447 | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | |
| 448 | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | |
| 24 | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | | |

Sceloporus graciosus
SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO.

~~SIZE~~ SIZE IN mm.

SIZE IN mm.

24 12.3 x 8.1 12.3 x 7.8

13.5 x 7.8 14.4 x 8.3 14.8 x 8.4

25 11.4 x 7.5 11.3 x 6.9

12.0 x 7.8 11.3 x 8.0 11.6 x 8.4

215 12.0 x 8.3 12.3 x 8.3 12.0 x 8.3

12.3 x 7.8 12.6 x 7.4 12.5 x 8.0

220 11.4 x 8.4 12.0 x 9.0 11.6 x 8.7

11.9 x 7.8 11.3 x 8.3 12.0 x 8.0

226 12.3 x 8.0 10.5 x 8.7 11.4 x 8.3

12.0 x 7.5 12.8 x 8.3

234 13.5 x 8.4 14.4 x 7.7

14.0 x 8.3 13.5 x 8.9

236 10.5 x 7.5 12.0 x 7.2

12.0 x 7.5 12.0 x 8.6

239 11.6 x 7.8 12.2 x 8.6

12.3 x 8.7 12.0 x 8.0 12.6 x 8.1

375 12.3 x 7.5 11.1 x 6.8 11.4 x 7.2

12.0 x 6.9 11.4 x 7.5 9.0 x 7.4

382 12.8 x 7.5 11.4 x 8.6

13.8 x 8.0

390 12.5 x 8.1 12.6 x 8.7

12.0 x 8.7 12.5 x 8.1 11.6 x 7.4

391 12.0 x 8.4 11.6 x 8.0 11.1 x 7.4

12.0 x 7.7 13.5 x 7.5

412 13.8 x 8.3

15.6 x 9.0

420 14.1 x 7.8

13.7 x 7.4 13.2 x 8.4

426 12.5 x 8.0 12.9 x 8.3

13.8 x 9.3 13.5 x 9.2

444 14.4 x 8.3

14.0 x 8.3 14.0 x 8.9

446 15.0 x 7.4

13.8 x 7.8 14.1 x 7.8

447 13.9 x 8.3 13.5 x 8.0

12.9 x 8.1 12.5 x 7.8

448 11.7 x 8.7 12.8 x 6.9

(broken)
12.5 x 8.3 11.7 x 8.0 11.4 x 8.3

$N = 39$

$\Sigma X = 480.3 \times 311.7$

$\bar{X} = 12.3 \times 8.0 \text{ mm}$

$N = 44$

$\Sigma X = 558.4 \times 355.7$

$\bar{X} = 12.7 \times 8.1 \text{ mm}$

$N = 83$

$\Sigma X = 1038.7 \times 667.4$

$\bar{X} = 12.5 \times 8.0 \text{ mm}$

Range = 9.6 x 6.8 mm to 15.6 x 9.3 mm

Sceloporus graciosus

OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1 ~~||||~~

~~||||~~

2 ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

3 ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

4 ||

||

5 |

6

7

8

9

10

Sceloporus graciosus Adult (50+ mm S-V)

| No. Ova | Left ovary | Right ovary |
|---------|------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |

Sceloporus graciosus Immature

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 1 | | |
| 2 | | |
| 3 | I | |
| 4 | | I |
| 5 | II | I |
| 6 | I | I |
| 7 | III | I |
| 8 | I | III |
| 9 | I | II |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | I |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | I | |

Sceloporus graciosus Adult ♀ (50+mm S-V)

| B | B1 | B2 | B3 |
|-------------------------|-----------------|-----------------|-----------------|
| Jan | | | |
| Feb | | | |
| Mar | | | |
| Apr II | III | | |
| May IIIIIIII | IIII | III | I |
| Jun III | II | IIII | IIII |
| Jul IIIIIIII | IIII | IIII | IIII |
| Aug IIIIIIII | IIII | III | |
| Sep | | | |
| Oct | | | |
| Nov | | | |
| Dec | | | |

Sceloporus graciosus Immature ♀

B

B1

B2

B3

Jan

Feb

Mar

Apr

May 1

Jun 1

Jul 11

Aug 1

Sep

Oct

Nov

Dec

11

SCELOFOCUS
MAGISTER



I.R. - 13 8 1/2 x 11



SCELOPORUS
MACISTER

Sceloporus magister

Total Collected (thru March 1967)

| <u>Month</u> | <u>IMM.</u> | | | <u>ADULT</u> | | | <u>Grand
Total</u> |
|--------------|-------------|----------|--------------|--------------|----------|--------------|------------------------|
| | <u>♂</u> | <u>♀</u> | <u>Total</u> | <u>♂</u> | <u>♀</u> | <u>Total</u> | |
| JAN | — | — | — | | | | |
| FEB | — | — | — | | | | |
| MAR | — | 1 | 1 | | | | |
| APR | 1 | — | 1 | 22 | 7 | 29 | |
| MAY | 1 | 1 | 2 | 14 | 7 | 21 | |
| JUNE | 3 | 2 | 5 | 16 | 18 | 34 | |
| JULY | 8 | 11 | 19 | 16 | 11 | 27 | |
| AUG | 6 | 4 | 10 | 9 | 13 | 22 | |
| SEPT | 4 | 3 | 7 | 10 | 2 | 12 | |
| OCT | — | 1 | 1 | 7 | 6 | 13 | |
| NOV | — | — | — | — | — | — | |
| DEC. | — | — | — | — | — | — | |
| Total | 23 | 23 | 46 | | | | |

(

(

(

1959-1960

1959

1960

1961

1962

1963-1964

1963

1964

1965

1966

1967-1968

1967

1968

1969

1970

4/22 - 6/26

1971-1972

1973-1974

1975 ~~TOFF~~

1976 7/12

1977 -

1978 7/12

1979 6/27



ENCIPHERED FOG 17001

1951

1960

1961

1962

FOG 17001

FOG 17001

1951

1960

1961

1962

FOG 17001

FOG 17001

1951

1960

1961

1962

FOG 17001

FOG 17001

1951

1960

1961

1962

FOG 17001

K

Potential Breeders, Sceloporus magister ♂♂ (85+mm, S-V)

(smallest ♂ = 92 mm.)

(largest ♂ = 119 ")

| Date | # ♂ | No ♀ | Total | % ♂ |
|----------|-----|------|-------|-----|
| Apr. '54 | 0 | 1 | 1 | 0 |
| May | 1 | 1 | 2 | 50 |
| June | 2 | 0 | 2 | 100 |
| July | 0 | 7 | 7 | 0 |
| Aug. | 0 | 5 | 5 | 0 |
| Sept. | 0 | 5 | 5 | 0 |
| Oct. | 0 | 7 | 7 | 0 |
| Mar. '60 | 0 | 4 | 4 | 0 |
| Apr. | 0 | 3 | 3 | 0 |
| May | 4 | 0 | 4 | 100 |
| June | | | 0 | |
| July | 0 | 1 | 1 | 0 |
| May '61 | 2 | 0 | 2 | 100 |
| June | | | 0 | |
| July | | | 0 | |
| Aug. | 0 | 1 | 1 | 0 |
| Sept. | 0 | 1 | 1 | 0 |
| Apr. '62 | 18 | 0 | 18 | 100 |
| May | 4 | 0 | 4 | 100 |
| Jun | 12 | 2 | 14 | 86 |
| Jul. | 4 | 3 | 7 | 57 |
| Aug. | 1 | 1 | 2 | 50 |
| Sep. | 0 | 1 | 1 | 0 |
| Sep. '63 | | | 0 | |
| May '64 | 1 | 0 | 1 | 100 |

| Month | # ♂ | No ♀ | Total | % ♂ |
|-------|-----|------|-------|-----|
| Mar. | 0 | 4 | 4 | 0 |
| Apr. | 0 | 4 | 4 | 0 |
| May | 7 | 1 | 8 | 88 |
| June | 2 | 0 | 2 | 100 |
| July | 0 | 8 | 8 | 0 |
| Aug. | 0 | 6 | 6 | 0 |
| Sept. | 0 | 6 | 6 | 0 |
| Oct. | 0 | 7 | 7 | 0 |
| Total | | | 45 | |

Totals, 1959-1963.

| Month | # ♂ | No ♀ | Total | % ♂ |
|-----------------|-----|------|-------|-----|
| Mar. | 0 | 4 | 4 | 0 |
| Apr. | 18 | 4 | 22 | 82 |
| May | 11 | 1 | 12 | 92 |
| Jun. | 14 | 2 | 16 | 88 |
| Jul. | 4 | 11 | 15 | 27 |
| Aug. | 1 | 7 | 8 | 12 |
| Sept. | 0 | 7 | 7 | 0 |
| Oct. | 0 | 7 | 7 | 0 |
| Total | | | 91 | |

Sceloporus magister (85+ mm, S-V)

Left testis volume - Summary 1959-1962

To March 1967

| Month | Σx | N | \bar{x}
(318.2) |
|-------|------------|----|----------------------|
| Mar. | 1273 | 4 | 318.2 |
| Apr. | 7672 | 22 | 348.7 |
| May | 3141 | 12 | 261.8 |
| Jun | 1931 | 16 | 120.7 |
| Jul | 542 | 16 | 33.9 |
| Aug | 385 | 9 | 42.8 |
| Sep | 477 | 7 | 68.1 |
| Oct. | 885 | 7 | 126.4 |

| Σx | N | \bar{x} |
|------------|---|-----------|
|------------|---|-----------|

same

| | | |
|------|----|-----|
| 4148 | 14 | 296 |
|------|----|-----|

same

same

same

| | |
|---|-----|
| 9 | 1/3 |
|---|-----|

same

Sceloporus magister Testis Volumes (85+ mm S-V)

1959
Left Testis

| APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|------|-----|
| 141 | 25 | 97 | 38 | 33 | 36 | 134 |
| | 120 | 22 | 69 | 27 | 45 | 84 |
| | | | 26 | 39 | 63 | 141 |
| | | | 33 | 25 | 30 | 171 |
| | | | 32 | 34 | 205 | 128 |
| | | | 45 | | | 99 |
| | | | 27 | | | 128 |

| | | | | | | | |
|-------------|-----|--------|-------|----------------------|-------|--------|--------|
| TOTAL VOL | 141 | 145 | 119 | 270 | 158 | 379 | 885 |
| MEAN | 141 | 72.5 | 59.5 | 38.6 31.6 | 75.8 | 126.4 | |
| RANGE | — | 25-120 | 22-97 | 26-69 | 25-39 | 30-205 | 84-134 |
| NO. LIZARDS | 1 | 2 | 2 | 7 | 5 | 5 | 7 |

Right Testis

| APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|------|-----|
| 121 | 33 | 147 | 25 | 31 | 33 | 145 |
| | 205 | 17 | 63 | 15 | 24 | 89 |
| | | | 22 | 27 | 57 | 161 |
| | | | 30 | 20 | 19 | 163 |
| | | | 31 | 25 | 188 | 143 |
| | | | 30 | | | 75 |
| | | | 24 | | | 119 |

| | | | | | | | |
|-------------|-----|--------|--------|-------|-------|--------|--------|
| TOTAL VOL | 121 | 238 | 164 | 225 | 118 | 321 | 895 |
| MEAN | 121 | 119.0 | 82.0 | 32.1 | 23.6 | 64.2 | 127.9 |
| RANGE | — | 33-205 | 17-147 | 22-63 | 15-31 | 19-188 | 75-163 |
| NO. LIZARDS | 1 | 2 | 2 | 7 | 5 | 5 | 7 |

Sceloporus magister Testis Volumes (85⁺ mm SV)

1960

Left Testis

| MAR | APR | MAY | JUN | JUL |
|-----|-----|-----|-----|-----|
| 299 | 422 | 227 | — | 10 |
| 425 | 232 | 110 | | 39 |
| 208 | 483 | 198 | | |
| 341 | | 361 | | |

Right Testis

| MAR | APR | MAY | JUN | JUL |
|-----|-----|-----|-----|---------------|
| 278 | 303 | 144 | — | 8 |
| 328 | 184 | 111 | | 34 |
| 161 | 348 | 181 | | |
| 282 | | 298 | | 22 |

TOTAL VOL 1273 1137 896 0 49
MEAN 318.3 379.0 224.0 0 24.5
RANGE 208-425 232-483 110-361 0 10-39
NO. LIZARDS 4 3 4 0 2

1049 835 734 0 42
262.3 278.3 183.5 0 21.0
161-328 184-348 111-298 0 8-34
4 3 4 0 2

Left Testis 1961

| MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|------|
| 284 | — | — | 30 | 27 |
| 348 | | | | |

Right Testis

| MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|------|
| 341 | — | — | 25 | 24 |
| 298 | | | | |

TOTAL VOL 632 0 0 30 27
MEAN 316 0 0 30 27
RANGE 284-348 0 0 — —
NO. LIZARDS 2 0 0 1 1

639 0 0 25 24
319.5 0 0 25 24
298-341 0 0 — —
2 0 0 1 1

(1)

(1)

(1)

Sceloporus magister Testis Volumes (85+mm S-V)

1962

Left Testis

| APR | MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|-----|------|
| 280 | 348 | 189 | 27 | 27 | 71 |
| 328 | 457 | 230 | 36 | 65 | |
| 344 | 448 | 102 | 32 | 105 | |
| 312 | 215 | 163 | 18 | | |
| 425 | | 97 | 39 | | |
| 394 | | 41 | 36 | | |
| 294 | | 11 | 35 | | |
| 292 | | 134 | | | |
| 280 | | 55 | | | |
| 440 | | 169 | | | |
| 499 | | 208 | | | |
| 358 | | 89 | | | |
| 456 | | 131 | | | |
| 334 | | 193 | | | |
| 217 | | | | | |
| 298 | | | | | |
| 312 | | | | | |
| 531 | | | | | |

TOTAL VOL 6394 1468 1812 223 197 71

MEAN 355.2 367.0 129.4 31.9 65.7 71

RANGE 217-531 215-457 11-230 18-39 27-105 -

NO. LIZARDS 18 4 14 7 3 1

Acelosaurus magister Testis Volumes (85+ mm S-V)

1967
Right ~~Left~~ Testis

| APR | MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|-----|------|
| 275 | 348 | 189 | 27 | 27 | 71 |
| 258 | 457 | 230 | 36 | 65 | |
| 237 | 448 | 102 | 32 | 105 | |
| 269 | 215 | 163 | 18 | | |
| 348 | | 97 | 39 | | |
| 495 | | 41 | 36 | | |
| 286 | | 11 | 35 | | |
| 237 | | 134 | | | |
| 343 | | 56 | | | |
| 348 | | 169 | | | |
| 365 | | 208 | | | |
| 312 | | 89 | | | |
| 448 | | 131 | | | |
| 341 | | 193 | | | |
| 233 | | | | | |
| 356 | | | | | |
| 296 | | | | | |
| 461 | | | | | |

TOTAL VOL 5908 1468 1813 223 197 71

MEAN 328.2 367.0 129.5 31.9 65.7 71

RANGE 233-495 215-457 11-230 18-39 27-105 —

NO. LIZARDS 18 4 14 7 3 1

Testis Volumes, *Sceloporus magister* Adult (75+ mm SL - ✓)

Left testis larger

|||||

|||||

Right testis larger

|||||

Testes same size

Testis Volumes, *Sceloporus magister* Immature (>75mm SL)

Left testis larger

11

Right testis larger

1

Testes same size

Sceloporus magister Adults (75+ mm S-V)

(15)
Left testis anterior

(16)
Right testis anterior
|||||

(17)
Testes even
|||

6

6

6

Sceloporus magister Immature (25 mm SL)

(15)
Left testis anterior

(16)
Right testis anterior

(17)
Testes even

6

6

6

Sceloporus magister Adult ♂ (75+ mm S-V)

| | B | B1 | B2 | B3 |
|-----|---|----|----|----|
| Jan | | | | |
| Feb | | | " | |
| Mar | | | " | |
| Apr | | | | |
| May | | | | |
| Jun | | | - | |
| Jul | | | - | |
| Aug | | | - | - |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |

(

(

(

Sceloporus magister Immature

B

B1

B2

B3

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep 1

Oct

Nov

Dec

€

€

€

Sceloporus magister Adult (75⁺mm S-V)

| (19) | (18) | (20) |
|---------------------|----------------------|-----------------|
| LEFT OVARY ANTERIOR | RIGHT OVARY ANTERIOR | OVARIES EVEN |
| // | IX//III | IX//IX//IX//III |
| | | |

Sceloporus magister
EGGS IN OVIDUCT

LEFT

RIGHT

| NO. of EGGS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|---|---|---|---|---|---|---|---|---|---|----|--|---|---|---|---|---|---|---|---|---|---|----|
| NO. of TAG | | | | | | | | | | | | | | | | | | | | | | | |
| 116 | | | | | ✓ | | | | | | | | | | | | | | ✓ | | | | |
| 119 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 149 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 174 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 177 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 178 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 180 | | | | | | ✓ | | | | | | | | | | | ✓ | | | | | | |
| 206 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |

Sceloporus magister

SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO.

SIZE IN mm.

116 18.3 x 10.6; 17.4 x 9.9; 16.5 x 9.6; 18.8 x 10.2
119 19.8 x 10.4; 17.8 x 9.9; 17.8 x 11.0; 18.8 x 11.4; 19.1 x 10.6
149 — — — — —
174 17.8 x 10.2; 17.7 x 10.5; 17.9 x 9.5; 17.6 x 9.7; 17.0 x 10.5
177 15.7 x 10.0; 16.5 x 10.4; 17.4 x 10.5; 17.3 x 10.0
178 19.1 x 10.4; 19.7 x 10.3; 20.1 x 12.0; 20.9 x 12.2
180 17.2 x 10.2; 16.8 x 10.5; 15.7 x 11.8; 17.0 x 10.8; 17.3 x 11.0
206 15.9 x 9.5; 16.2 x 10.9; 16.3 x 9.9; 15.0 x 11.1

$$N = 31$$

$$\Sigma X = 548.4 \times 325.5$$

$$\bar{X} = 17.7 \times 10.5 \text{ mm}$$

SIZE IN mm.

18.1 x 9.6 17.1 x 10.3 17.6 x 11.1 16.6 x 10.7 17.3 x 9.5 12.4 x 10.7
18.8 x 10.5 18.5 x 10.7 17.9 x 10.6 18.5 x 10.1 18.3 x 10.5
— — — — —
18.0 x 9.7; 18.2 x 11.7; 18.9 x 11.1; 17.3 x 10.4; 17.7 x 10.5
16.5 x 10.0; 16.8 x 9.6; 17.0 x 11.1; 19.3 x 10.0; 18.7 x 10.6
20.6 x 10.0; 18.2 x 11.5; 18.6 x 10.5; 19.8 x 11.4; 18.9 x 10.0
16.9 x 10.0; 17.0 x 11.2; 16.7 x 10.5; 17.0 x 11.2
15.8 x 11.0; 16.0 x 11.0; 17.7 x 12.5; 17.3 x 11.8

$$N = 34$$

$$\Sigma X = 600.0 \times 361.6$$

$$\bar{X} = 17.6 \times 10.6 \text{ mm}$$

$$N = 65$$

$$\Sigma X = 1148.4 \times 687.1$$

$$\bar{X} = 17.7 \times 10.6 \text{ mm}$$

Range = 12.4 x 9.5 mm to 20.9 x 12.5 mm

Sceloporus magister

OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1

2

3,

4 ~~///~~

5 ~~///~~

6,

7,

8

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10

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Sceloporus magister
FAT BODIES
⑦

| MONTH | ♂
(85 mm.) | ADULT | ♀
(75 mm.) | ♂ | IMMATURE | ♀ |
|-----------------|---------------|-------|---------------|---|----------|---|
| JAN. | | | | | | |
| FEB. | | | | | | |
| MAR. III | | I | | | | |
| APR. III | | III | | | | |
| MAY. III | | II | | | | |
| JUN. III | | III | | | | |
| JUL. III | | III | | | | |
| AUG. | | | | | | |
| AUG. III | | III | | | | |
| SEPT. II | | II | | | | |
| OCT. II | | I | | | | I |
| NOV. | | | | | | |
| DEC. | | | | | | |

Sceloporus magister Adult (75+ mm S-U)

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |

Sceloporus magister Adult (75+mm S-U)

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |

Sceloporus magister Immature

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 5 | | |
| 6 | | I |
| 7 | | |
| 8 | II | I |
| 9 | III | III |
| 10 | | II |
| 11 | II | III |
| 12 | III | III |
| 13 | III | III |
| 14 | | III |
| 15 | I | |
| 16 | II | I |
| 17 | | II |
| 18 | I | I |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | I | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |

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Sceloporus magister Adult ♀ (75+ mm S-U)

B

B1

B2

B3

Jan

Feb

Mar

Apr IIII

May

Jun III

Jul IIII

Aug IIII

Sep

Oct

Nov

Dec

IIII

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Sceloporus magister Immature

B

B1

B2

B3

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

SCELOPORUS
OCCIDENTALIS

SCEIOPORIS
OCCIDENTALIS

Sceloporus undulatus Table 1

Month

1944

1945

| | ♂ | ♀ | Total | ♂ | ♀ | Total |
|-----|----|----|-------|-----|-----|-------|
| JAN | - | - | - | 1 | - | 1 |
| FEB | 3 | 9 | 12 | 17 | - | 17 |
| MAR | 7 | 9 | 16 | 42 | 24 | 66 |
| APR | 7 | 5 | 12 | 55 | 23 | 78 |
| MAY | 7 | 8 | 15 | 81 | 31 | 112 |
| JUN | 12 | 3 | 15 | 42 | 25 | 67 |
| JUL | 17 | 10 | 27 | 31 | 21 | 52 |
| AUG | 11 | 3 | 14 | 32 | 31 | 63 |
| SEP | 2 | 1 | 3 | 12 | 11 | 23 |
| OCT | - | - | - | 1 | 7 | 8 |
| NOV | - | - | - | 4 | 2 | 6 |
| DEC | - | - | - | - | - | - |
| | 66 | 48 | 114 | 329 | 190 | 519 |

TOTALS

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2. 2. 1960

IN-AR-200 (1) 2 11/11

1959 11/11 11/11

1960 11/11 11/11

1961 11/11 11/11

1962 11/11 11/11

11/11 11/11

CON-AR-200 (1) 11/11

1959 11/11 11/11

1960 11/11 11/11

1961 11/11 11/11

1962 11/11 11/11

11/11 11/11

EX-AR-200 (1) 11/11

1959 11/11 11/11

1960 11/11 11/11

1961 11/11 11/11

1962 11/11 11/11

11/11 11/11 11/11

CON-AR-200 (1) 11/11

1959 11/11 11/11

1960 11/11 11/11

1961 11/11 11/11

1962 11/11 11/11

11/11 11/11

OK

Potential Breeders, *Sceloporus occidentalis* ♂♂ (65+mm, -V)

(Smallest ♂ = 61 mm)
(largest ♂ = 88 ")

| Date | # ♂ | No. ♀ | Total | % ♂ |
|----------|-----|-------|-------|-----|
| Aug. '58 | 0 | 4 | 4 | 0 |
| Sept. | 0 | 6 | 6 | 0 |
| Oct. | 0 | 6 | 6 | 0 |
| Mar. '59 | 2 | 2 | 4 | 50 |
| Apr. | 4 | 4 | 8 | 50 |
| May | 19 | 0 | 19 | 100 |
| June | 2 | 13 | 15 | 13 |
| July | 0 | 23 | 23 | 0 |
| Aug. | 0 | 25 | 25 | 0 |
| Sept. | 0 | 6 | 6 | 0 |
| Oct. | 0 | 5 | 5 | 0 |
| Mar. '60 | 2 | 1 | 3 | 67 |
| Apr. | 19 | 1 | 20 | 95 |
| May | 2 | 0 | 2 | 100 |
| June | | | 0 | |
| July | 0 | 3 | 3 | 0 |
| Aug. | | | 0 | |
| Sept. | 0 | 1 | 1 | 0 |
| Oct. | | | 0 | |
| Nov. | 0 | 4 | 4 | 0 |
| Jan. '61 | 0 | 1 | 1 | 0 |
| Feb. | 4 | 12 | 16 | 25 |
| Mar. | 29 | 8 | 37 | 78 |
| Apr. | 12 | 1 | 13 | 92 |
| May | 18 | 1 | 19 | 95 |
| June | 0 | 4 | 4 | 0 |
| July | | | 0 | |
| Aug. | | | 0 | |
| Sept. | 0 | 1 | 1 | 0 |
| Mar '62 | 1 | 0 | 1 | 100 |

Total, 1958-1961

| Month | # ♂ | No. ♀ | Total | % ♂ |
|-------|-----|-------|-------|-----|
| Jan. | 0 | 1 | 1 | 0 |
| Feb. | 4 | 12 | 16 | 25 |
| Mar. | 33 | 11 | 44 | 75 |
| Apr. | 35 | 6 | 41 | 85 |
| May | 39 | 1 | 40 | 98 |
| June | 2 | 17 | 19 | 10 |
| July | 0 | 26 | 26 | 0 |
| Aug. | 0 | 29 | 29 | 0 |
| Sept. | 0 | 14 | 14 | 0 |
| Oct. | 0 | 11 | 11 | 0 |
| Nov. | 0 | 4 | 4 | 0 |
| Total | | | 245 | |

Potential Breeders, Sceloporus occidentalis ♂♂ (65+mm, S-V).

| Date | # ♂ | No ♂ | Total | % ♂ |
|----------|-----|------|-------|-----|
| Apr. 62 | 9 | 0 | 9 | 100 |
| May | 38 | 0 | 38 | 100 |
| Jun | 23 | 1 | 24 | 96 |
| Jul. | 2 | 0 | 2 | 100 |
| Apr. '63 | 3 | 3 | 6 | 50 |
| May '63 | 3 | 0 | 3 | 100 |
| Jun | 1 | 0 | 1 | 100 |
| Jul | 4 | 0 | 4 | 100 |
| Aug | 0 | 4 | 4 | 0 |
| Feb. 64 | 0 | 1 | 1 | 0 |

Totals, 1958-1963.

| Month | # ♂ | No ♂ | Total | % ♂ |
|-------|-----|------|------------|-----|
| Jan. | 0 | 1 | 1 | 0 |
| Feb. | 4 | 12 | 16 | 25 |
| Mar. | 34 | 11 | 45 | 76 |
| Apr. | 47 | 9 | 56 | 84 |
| May | 80 | 1 | 81 | 99 |
| Jun. | 26 | 18 | 44 | 59 |
| July | 6 | 26 | 32 | 19 |
| Aug. | 0 | 33 | 33 | 0 |
| Sep. | 0 | 14 | 14 | 0 |
| Oct. | 0 | 11 | 11 | 0 |
| Nov. | 0 | 4 | 4 | 0 |
| | | | <u>337</u> | |



Potential Breeders, Singapore - incident 11-7-9, 6, elevation

Elevation (ft)

| Date | 0-1111 | | 111-512 | | 4-510 | | 510-1777 | | Total |
|----------|--------|-----|---------|-----|-------|-----|----------|-----|-------|
| | 2/1 | 7/5 | 2/1 | 1/5 | 2/1 | 1/5 | 2/1 | 7/5 | |
| Aug. '50 | 2/2 | 0 | | | 2/2 | 0 | | | 2/2 |
| Sept. | 0/1 | 0 | 0/2 | 0 | 0/1 | 0 | | | |
| Oct. | | | 0/3 | 0 | 0/3 | 0 | | | |
| Mar. '51 | 2/4 | 50 | | | | | | | |
| Apr. | 2/2 | 100 | 4/1 | 100 | 4/5 | 100 | | | |
| May | 5/5 | 100 | 1 | 100 | 2/5 | 100 | 2/5 | 100 | |
| June | 1/7 | 20 | 0/1 | 0 | 4/10 | 10 | | | |
| Jul. | 0/1 | 0 | 0/2 | 0 | 0/2 | 0 | | | |
| Aug. | 1/2 | 0 | 1/2 | 0 | 0/10 | | 2/5 | 0 | |
| Sept. | 0/1 | 0 | | | 0/5 | 0 | | | |
| Oct. | | | | | 0/5 | 0 | | | |
| Mar. '61 | 1/3 | 61 | | | | | | | |
| Apr. | 4/4 | 1 | 12/10 | 10 | | | | | |
| May | | | | | 2/2 | 100 | | | |
| June | | | | | | | | | |
| Jul. | | | 0/1 | 0 | | | | | |
| Aug. | | | | | | | | | |
| Sept. | 0/1 | 0 | | | | | | | |
| Oct. | | | | | | | | | |
| Nov. | 0/4 | 0 | | | | | | | |
| Jan. '61 | 0/1 | 0 | | | | | | | |
| Feb. | 4/16 | 20 | | | | | | | |
| Mar. | 26/23 | 71 | 4/2 | 100 | | | | | |
| Apr. | 12/12 | 100 | | | | | | | |
| May | 1/5 | 33 | 4/1 | 100 | 12/13 | 100 | 1/1 | 100 | |
| June | 0/4 | 0 | | | | | | | |
| Jul. | | | | | | | | | |
| Aug. | | | | | | | | | |
| Sept. | 1/1 | 0 | | | | | | | |

Potential Breeder, *Scleroporus occidentalis* 7.7, E₂ Elevation

(total)

Elevation (ft.)

| Date | 1 - 1191 | | 2 - 1191 | | 4 - 1191 | | 6 - 1191 | |
|-------|----------|------|----------|------|----------|------|----------|------|
| | 3/T | 10.8 | 7/T | 10.8 | 5/T | 10.8 | 6/T | 10.8 |
| Jan. | 0/1 | 0 | | | | | | |
| Feb. | 4/10 | 25 | | | | | | |
| Mar. | 32/40 | 75 | 2/2 | 100 | | | | |
| Apr. | 12/11 | 95 | 16/17 | 14 | 1/5 | 20 | | |
| May | 6/8 | 75 | 1/1 | 100 | 22/22 | 100 | 7/7 | 100 |
| June | 1/8 | 12 | 0/1 | 0 | 1/10 | 10 | | |
| July | 0/10 | 0 | 0/9 | 0 | 0/1 | 0 | | |
| Aug. | 0/4 | 0 | 0/2 | 0 | 0/13 | 0 | 0/5 | 0 |
| Sept. | 0/4 | 0 | 0/5 | 0 | 0/6 | 0 | | |
| Oct. | | | 0/3 | 0 | 0/1 | 0 | | |
| Nov. | 0/4 | 0 | | | | | | |

Sceloporus occidentalis - (65⁺mm, 5-V)

Left Testis Volume - Summary - 1958-1963.

| Month | ΣX | N | \bar{X} |
|-------|------------|----|-----------|
| Jan | 113 | 1 | 113 |
| Feb | 5057 | 16 | 316.1 |
| Mar | 11403 | 42 | 271.5 |
| Apr | 17871 | 57 | 313.5 |
| May | 20123 | 81 | 248.4 |
| Jun | 3407 | 44 | 77.4 |
| Jul | 666 | 30 | 22.2 |
| Aug | 1066 | 29 | 36.8 |
| Sep | 826 | 14 | 59.0 |
| Oct. | 1904 | 11 | 173.1 |
| Nov. | 1494 | 4 | 373.5 |

Sceloporus occidentalis Testis Volumes (65mm S-V)

Left Testis
1958

| AUG | SEPT | OCT |
|-----|------|-----|
| 19 | 13 | 149 |
| 19 | 78 | 105 |
| 12 | 31 | 139 |
| 12 | 45 | 193 |
| | 129 | 190 |
| | 40 | 254 |

TOTAL VOL 62 336 1030
MEAN 15.5 56.0 171.7
RANGE 12-19 13-129 105-254
NO. LIZARDS 4 6 6

Right Testis

| AUG | SEPT | OCT |
|-----|------|-----|
| 24 | 12 | 129 |
| 24 | 71 | 89 |
| 11 | 46 | 135 |
| 11 | 43 | 169 |
| | 99 | 171 |
| | 72 | 242 |

TOTAL VOL ~~70~~ 343 935
MEAN 17.5 57.2 155.8
RANGE 11-24 12-99 89-242
NO. LIZARDS 4 6 6

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Sceloporus occidentalis Testis Volumes (65mm SL)

1959
Left Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|-----|------|-----|
| 240 | 215 | 205 | 60 | 17 | 10 | 51 | 128 |
| 210 | 235 | 125 | 29 | ~ | 30 | 37 | 176 |
| 205 | 240 | 174 | 8 | 11 | 40 | 24 | 205 |
| 190 | 278 | 179 | 24 | 10 | 8 | 27 | 212 |
| | 288 | 281 | 11 | 9 | 36 | 154 | 153 |
| | 259 | 308 | 11 | 20 | 8 | 51 | |
| | 244 | 261 | 32 | 16 | 8 | | |
| | 195 | 351 | 16 | 11 | 43 | | |
| | | 308 | 19 | 24 | 50 | | |
| | | 179 | 21 | 12 | 108 | | |
| | | 301 | 16 | 34 | 89 | | |
| | | 137 | 23 | 45 | 4 | | |
| | | 158 | 26 | 7 | 13 | | |
| | | 137 | 98 | 22 | 11 | | |
| | | 217 | 5 | 19 | 8 | | |
| | | 42 | 47 | 8 | 13 | | |
| | | 79 | | 27 | 15 | | |
| | | 113 | | 15 | 5 | | |
| | | 84 | | 8 | 24 | | |
| | | | | 18 | 52 | | |
| | | | | 8 | 96 | | |
| | | | | 39 | 40 | | |
| | | | | | 21 | | |
| | | | | | 24 | | |
| | | | | | 248 | | |

TOTAL VOL. 845 1954 3639 446 380 1004 344 874
 MEAN 211.3 244.3 191.5 27.9 18.1 ~~40.2~~ 57.3 ~~174.8~~
 RANGE 190-240 195-288 84-351 5-98 7-45 4-248 24-151 128-212
 NO. LIZARDS 4 8 19 16 ~~21~~ 25 6 5

Sceloporus occidentalis Testis Volumes (65+ mm SVL)

1959
Right Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT |
|-----|-----|-----|-----|-----|-----|------|-----|
| 193 | 179 | 205 | 60 | 20 | 13 | 40 | 133 |
| 205 | 241 | 147 | 24 | 38 | 20 | 30 | 205 |
| 157 | 212 | 200 | 7 | 8 | 30 | 24 | 339 |
| 190 | 284 | 179 | 35 | 8 | 11 | 22 | 137 |
| | 220 | 252 | 10 | 6 | 28 | 125 | 212 |
| | 280 | 348 | 11 | 20 | 8 | 42 | |
| | 266 | 229 | 20 | 10 | ~ | | |
| | 168 | 299 | 17 | 8 | 50 | | |
| | | 356 | 19 | 18 | 33 | | |
| | | 205 | 18 | 11 | 91 | | |
| | | 339 | 12 | 16 | 59 | | |
| | | 141 | 20 | 30 | 5 | | |
| | | 233 | 20 | 5 | 16 | | |
| | | 158 | 85 | 21 | 13 | | |
| | | 182 | 6 | 22 | 10 | | |
| | | 42 | 30 | 7 | 20 | | |
| | | 107 | | 22 | 13 | | |
| | | 145 | | 6 | 4 | | |
| | | 150 | | 8 | 20 | | |
| | | | | 18 | 55 | | |
| | | | | 7 | 94 | | |
| | | | | 28 | 41 | | |
| | | | | | 18 | | |
| | | | | | 19 | | |
| | | | | | 254 | | |

TOTAL VOL 745 1850 3917 394 337 925 283 1026

MEAN 186.3 231.3 206.2 24.6 15.3 38.5 47.2 205.2

RANGE 157-205 168-284 42-356 6-85 5-38 4-254 22-125 133-339

NO. LIZARDS 4 8 19 16 22 24 6 5

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Sceloporus occidentalis Testis Volumes (65⁺ mm SL)

1960
Left Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT | NOV |
|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 449 | 379 | 171 | — | 29 | — | 93 | — | 105 |
| 281 | 469 | 379 | | 41 | | | | 402 |
| 339 | 379 | | | 6 | | | | 554 |
| | 286 | | | | | | | 433 |
| | 508 | | | | | | | |
| | 480 | | | | | | | |
| | 512 | | | | | | | |
| | 620 | | | | | | | |
| | 471 | | | | | | | |
| | 552 | | | | | | | |
| | 258 | | | | | | | |
| | 562 | | | | | | | |
| | 633 | | | | | | | |
| | 379 | | | | | | | |
| | 288 | | | | | | | |
| | 288 | | | | | | | |
| | 398 | | | | | | | |
| | 452 | | | | | | | |
| | 347 | | | | | | | |
| | 363 | | | | | | | |

| | | | | | | | | | |
|-------------|---------|---------|---------|---|------|---|----|---|---------|
| TOTAL VOL. | 1069 | 8624 | 550 | 0 | 76 | 0 | 93 | 0 | 1494 |
| MEAN | 356.3 | 431.2 | 275.0 | 0 | 25.3 | 0 | 93 | 0 | 373.5 |
| RANGE | 281-449 | 258-633 | 171-379 | 0 | 6-41 | 0 | — | 0 | 105-554 |
| NO. LIZARDS | 3 | 20 | 2 | 0 | 3 | 0 | 1 | 0 | 4 |

Sceloporus occidentalis Testis Volumes (65 mm SV)

1960

Right Testis

| MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT | NOV |
|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 314 | 258 | 128 | - | 27 | - | 93 | - | 94 |
| 263 | 354 | 301 | | 50 | | | | 368 |
| 280 | 363 | | | 5 | | | | 582 |
| | 294 | | | | | | | 341 |
| | 508 | | | | | | | |
| | 413 | | | | | | | |
| | 535 | | | | | | | |
| | 466 | | | | | | | |
| | 402 | | | | | | | |
| | 513 | | | | | | | |
| | 244 | | | | | | | |
| | 445 | | | | | | | |
| | 552 | | | | | | | |
| | 292 | | | | | | | |
| | 312 | | | | | | | |
| | 232 | | | | | | | |
| | 328 | | | | | | | |
| | 361 | | | | | | | |
| | 301 | | | | | | | |
| | 324 | | | | | | | |

| | | | | | | | | | |
|-------------|---------|---------|------------------|---|------|---|----|---|--------|
| TOTAL VOL. | 857 | 7497 | 429 | 0 | 82 | 0 | 93 | 0 | 1385 |
| MEAN | 285.7 | 374.9 | 214.5 | 0 | 27.3 | 0 | 93 | 0 | 346.3 |
| RANGE | 263-314 | 232-552 | 128-301 | 0 | 5-50 | 0 | - | 0 | 94-582 |
| NO. LIZARDS | 3 | 20 | 2 | 0 | 3 | 0 | 1 | 0 | 4 |

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Sceloporus occidentalis Testis Volumes (65+mm S-V)

1961
~~Left~~ Testis

| JAN | FEB | MAR | MAR | APR | MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 113 | 344 | 158 | 383 | 198 | 141 | 9 | — | — | 53 |
| | 356 | 522 | 222 | 246 | 21 | 10 | | | |
| | 237 | 312 | 149 | 314 | 252 | 27 | | | |
| | 361 | 179 | 105 | 240 | 316 | 78 | | | |
| | 323 | 302 | | 17 | 161 | | | | |
| | 344 | 193 | | 259 | 205 | | | | |
| | 174 | 179 | | 272 | 130 | | | | |
| | 424 | 235 | | 193 | 348 | | | | |
| | 263 | 328 | | 302 | 462 | | | | |
| | 193 | 369 | | 145 | 328 | | | | |
| | 314 | 417 | | 153 | 284 | | | | |
| | 330 | 379 | | 159 | 246 | | | | |
| | 379 | 354 | | 150 | 246 | | | | |
| | 448 | 235 | | 184 | 254 | | | | |
| | 246 | 184 | | | 228 | | | | |
| | 321 | 168 | | | 248 | | | | |
| | | 235 | | | 258 | | | | |
| | | 337 | | | 246 | | | | |
| | | 258 | | | 137 | | | | |
| | | 174 | | | 49 | | | | |
| | | 228 | | | | | | | |

| | | | | | | | | | | |
|-------------|-----|---------|-----|---------|--------|--------|------|---|---|----|
| TOTAL VOL | 113 | 5057 | 295 | 9302 | 2832 | 4560 | 124 | 0 | 0 | 53 |
| MEAN | 113 | 316.1 | 139 | 273.6 | 202.3 | 228.0 | 31.0 | 0 | 0 | 53 |
| RANGE | — | 174-448 | 149 | 105-522 | 17-314 | 21-462 | 9-78 | 0 | 0 | — |
| NO. LIZARDS | 1 | 16 | 457 | 34 | 14 | 20 | 4 | 0 | 0 | 1 |
| | | | 229 | | | | | | | |
| | | | 361 | | | | | | | |
| | | | 379 | | | | | | | |
| | | | 379 | | | | | | | |
| | | | 309 | | | | | | | |

Sceloporus occidentalis Testis Volumes (65⁺ mm SV)

1961
Right Testis

| JAN | FEB | MAR | MAR | APR | MAY | JUN | JUL | AUG | SEPT |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 124 | 344 | 150 | 410 | 198 | 149 | 12 | 7 | — | 35 |
| | 332 | 406 | 280 | 274 | 21 | 7 | | | |
| | 217 | 294 | 102 | 301 | 191 | 36 | | | |
| | 361 | 193 | 128 | 308 | 280 | 57 | | | |
| | 220 | 191 | | 11 | 200 | | | | |
| | 351 | 205 | | 274 | 240 | | | | |
| | 105 | 184 | | 286 | 111 | | | | |
| | 323 | 229 | | 205 | 206 | | | | |
| | 344 | 265 | | 233 | 324 | | | | |
| | 141 | 358 | | 129 | 278 | | | | |
| | 244 | 630 | | 161 | 196 | | | | |
| | 283 | 433 | | 146 | 261 | | | | |
| | 249 | 398 | | 167 | 193 | | | | |
| | 566 | 188 | | 153 | 273 | | | | |
| | 263 | 229 | | | 217 | | | | |
| | 269 | 179 | | | 217 | | | | |
| | | 240 | | | 316 | | | | |
| | | 361 | | | 206 | | | | |
| | | 244 | | | 133 | | | | |
| | | 164 | | | 42 | | | | |
| | | 222 | | | | | | | |

| | | | | | | | | | | |
|-------------|-----|---------|-----|---------|--------|--------|------|---|---|----|
| TOTAL VOL | 124 | 4612 | 288 | 8855 | 2846 | 4054 | 112 | 0 | 0 | 35 |
| MEAN | 124 | 288.3 | 129 | 260.4 | 203.3 | 202.7 | 28.0 | 0 | 0 | 35 |
| RANGE | — | 105-351 | 146 | 102-410 | 11-308 | 21-324 | 7-57 | 0 | 0 | — |
| NO. LIZARDS | 1 | 16 | 369 | 34 | 14 | 20 | 4 | 0 | 0 | 1 |
| | | | 149 | | | | | | | |
| | | | 193 | | | | | | | |
| | | | 278 | | | | | | | |
| | | | 288 | | | | | | | |
| | | | 332 | | | | | | | |



Handwritten text or markings in the bottom right corner, possibly a signature or date.



Sceloporus occidentalis Testis Volumes (65^Tmm S-V)

1962

MAR APR *Left Testis* MAY JUN JUL
~~MAR~~ ~~APR~~ ~~MAY~~ ~~JUN~~ ~~JUL~~

| | | | | | |
|-----|-----|-----|-----|-----|----|
| 187 | 286 | 286 | 246 | 294 | 41 |
| 363 | 372 | 280 | 116 | 27 | |
| 215 | 273 | 179 | 81 | | |
| 341 | 369 | 217 | 44 | | |
| 263 | 316 | 267 | 46 | | |
| 472 | 316 | 217 | 145 | | |
| 330 | 288 | 105 | 104 | | |
| 286 | 492 | | 120 | | |
| 246 | 398 | | 78 | | |
| | 348 | | 59 | | |
| | 301 | | 16 | | |
| | 415 | | 128 | | |
| | 246 | | 195 | | |
| | 423 | | 158 | | |
| | 235 | | 145 | | |
| | 241 | | 108 | | |
| | 379 | | 128 | | |
| | 386 | | 120 | | |
| | 305 | | 179 | | |
| | 308 | | 57 | | |
| | 364 | | 102 | | |
| | 235 | | 81 | | |
| | 205 | | 154 | | |
| | 164 | | | | |

| | | | | | | |
|-------------|-----|---------|-----|---------|--------|-------|
| TOTAL VOL | 187 | 2802 | 179 | 10386 | 2658 | 68 |
| MEAN | 187 | 311.3 | 206 | 280.7 | 115.6 | 34.0 |
| RANGE | - | 215-472 | 159 | 179-280 | 16-294 | 27-41 |
| NO. LIZARDS | 1 | 9 | 190 | 37 | 23 | 2 |
| | | 205 | | | | |
| | | 171 | | | | |

(

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(

Sceloporus occidentalis Testis Volumes (65+mm SV)

1962
Right Testis

MAR APR MAY MAY JUN JUL

230 371 316 292 254 26

415 316 310 135 26

288 208 203 69

386 321 229 55

256 288 215 40

423 286 228 122

316 301 193 143

348 388 102

235 331 75

286 53

356 13

457 129

356 212

340 143

330 211

222 94

386 111

263 130

292 193

240 50

296 78

230 90

233 111

200

TOTAL VOL 230 3038 193 10137 2613 52

MEAN 230 337.6 205 274.0 113.6 26.0

RANGE - 235-423 158 158-457 13-254 -

NO. LIZARDS 1 9 163 37 23 2

258

248

Sceloporus occidentalis - Testis volumes (65⁺mm, 5-V)
1963

Left Testis

| Apr | May | Jun | Jul | Aug |
|-----|----------------|-----|-----|-----|
| 157 | 344 | 179 | 20 | 63 |
| 182 | 296 | | 85 | |
| 263 | 348 | | 13 | |
| 321 | 179 | | 24 | |
| 434 | 20 | | | |
| 382 | 85 | | | |

| | | | | | |
|------------|-------|-------|-----|------|----|
| ΣX | 1659 | 988 | 179 | 142 | 63 |
| N | 6 | 3 | 1 | 4 | 1 |
| \bar{X} | 276.5 | 329.3 | 179 | 35.5 | 63 |

Range

Right Testis

| Apr | May | Jun | Jul | Aug |
|-----|-----|-----|-----|-----|
| 137 | 371 | 161 | 24 | 55 |
| 200 | 235 | | 73 | |
| 305 | 280 | | 13 | |
| 402 | | | 35 | |
| 406 | | | | |
| 309 | | | | |

| | | | | | |
|------------|-------|-------|-----|------|----|
| ΣX | 1759 | 886 | 161 | 145 | 55 |
| N | 6 | 3 | 1 | 4 | 1 |
| \bar{X} | 293.2 | 295.3 | 161 | 36.2 | 55 |

Range

Sceloporus occidentalis Adults (65+ mm S-V)

(15)
Left testis anterior

(16)
Right testis anterior
|||||
|||||

(17)
Testes even

Sceloporus occidentalis Immature (< 65 mm S-V)

⑮
Left testis anterior

⑯
Right testis anterior

⑰
Testes even

||||

Testis Volumes, *Sceloporus occidentalis* Adult (65+ mmS-1)

Left testis larger

|||||

|||||

|||||

Right testis larger

|||||

|||||

Testes same size

|||||

Testis Volumes, *Sceloporus occidentalis* Immature (465mm SL)

Left testis larger

|||||

Right testis larger

|||||

Testes same size

|||||

(

(

(

Sceloporus occidentalis Adult ♂ (65+ mm S-L)

B

61

02

63

Jan

Feb

Mar

Apr

May

June

Jul

Aug

Sep

Oct

Nov

Dec

Sceloporus occidentalis Immature

| | B | B1 | B2 | B3 |
|-----|---|----|-----|----|
| Jan | | | | |
| Feb | | | | |
| Mar | | | | |
| Apr | | | | |
| May | | | I | |
| Jun | | | II | I |
| Jul | | | III | |
| Aug | | | | |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |



Sceloporus occidentalis Adult (60+ mm S-V)

| (19)
LEFT OVARY ANTERIOR | (18)
RIGHT OVARY ANTERIOR | (20)
OVARIES EVEN |
|-----------------------------|------------------------------|----------------------|
| | | |



Sceloporus occidentalis
EGGS IN OVIDUCT.

LEFT

RIGHT

| NO. of EGGS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|---|---|---|---|---|---|---|---|---|---|----|--|---|---|---|---|---|---|---|---|---|---|----|
| NO. of TAG | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 82 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| 86 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| 312 | | | | | | | ✓ | | | | | | | | | | | ✓ | | | | | |
| 453 | | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | |
| 456 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 467 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 470 | | | | | | | | ✓ | | | | | | | | | | | | ✓ | | | |
| 472 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 473 | | | | | | | | ✓ | | | | | | | | | | | ✓ | | | | |
| 474 | | | | | | ✓ | | | | | | | | | | | | | ✓ | ✓ | | | |
| 476 | | | | | | | ✓ | | | | | | | | | | | | ✓ | ✓ | | | |
| 479 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 480 | | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | |
| 481 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| 482 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 490 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 512 | | | | | ✓ | | | | | | | | | | | | | | | ✓ | | | |
| 517 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 549 | | | | | ✓ | | | | | | | | | | | | | | ✓ | | | | |
| 556 | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | |
| 557 | | | | | | ✓ | | | | | | | | | | ✓ | | | | | | | |
| 558 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |
| 566 | | | | | ✓ | | | | | | | | | | | | | | ✓ | | | | |
| 570 | | | | | | | ✓ | | | | | | | | | | | | ✓ | ✓ | | | |
| 577 | | | | | ✓ | | | | | | | | | | | ✓ | | | | | | | |
| 578 | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | |
| 580 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| 584 | | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | |

Sceloporus occidentalis

EGGS IN OVIDUCT

LEFT

RIGHT

| NO. of EGGS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|---|---|---|---|---|---|---|---|---|---|----|--|---|---|---|---|---|---|---|---|---|---|----|
| NO. of TAG | | | | | | | | | | | | | | | | | | | | | | | |
| 589 | | | | | | ✓ | | | | | | | | | | | ✓ | | | | | | |
| 595 | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | |
| 621 | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | | |
| 623 | | | | | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| 629 | | ✓ | | | | | | | | | | | | | | ✓ | | | | | | | |



Sceloporus occidentalis
SIZE OF EGGS IN OVIDUCT

| LIZARD NO | LEFT | RIGHT |
|-----------|---|---|
| | SIZE IN mm. | SIZE IN mm |
| 76 | 13.5 x 7.5 13.8 x 7.8 13.7 x 7.5 14.0 x 8.6 13.5 x 7.5 | 13.7 x 7.6 13.3 x 7.4 13.8 x 8.4 13.7 x 8.4 13.9 x 8.0 |
| 82 | 13.4 x 6.5 13.7 x 7.2 12.8 x 7.7 13.5 x 7.7 | 12.6 x 7.4 13.4 x 8.1 13.2 x 7.2 13.1 x 7.8 |
| 86 | 13.2 x 8.0 13.5 x 8.1 13.4 x 8.0 13.5 x 7.8 | 14.9 x 8.3 13.8 x 8.6 14.7 x 8.0 14.3 x 8.1 |
| 312 | 12.3 x 8.1 12.8 x 8.4 12.5 x 7.8 11.6 x 8.1 12.0 x 8.1 13.1 x 8.4 | 11.9 x 8.3 13.1 x 8.0 12.2 x 8.4 11.9 x 8.0 11.6 x 8.6 |
| 453 | 12.5 x 6.8 12.2 x 6.8 12.0 x 5.7 | 10.8 x 7.5 11.4 x 7.5 12.0 x 8.6 10.2 x 6.3 12.0 x 6.8 <u>11.7 x 7.7</u>
<u>10.8 x 6.5</u> |
| 456 | 11.7 x 8.3 12.2 x 7.2 10.8 x 7.5 10.2 x 7.8 10.8 x 8.1 | 11.7 x 8.0 12.2 x 7.2 10.8 x 7.7 11.1 x 7.7 11.3 x 7.4 |
| 467 | 13.6 x 7.8 14.7 x 7.7 14.1 x 8.2 14.0 x 7.3 | 13.0 x 7.3 13.3 x 7.5 13.9 x 7.3 13.4 x 7.1 13.7 x 7.7 |
| 470 | 12.6 x 7.8 12.0 x 7.4 12.0 x 8.1 13.1 x 6.6 12.3 x 7.5 <u>11.8 x 6.7</u> 12.0 x 7.0 | 12.6 x 7.3 12.0 x 7.9 11.4 x 6.9 11.5 x 7.4 11.7 x 6.6 <u>11.6 x 7.3</u>
<u>11.9 x 7.0</u> |
| 472 | 13.5 x 8.7 12.8 x 8.4 12.9 x 7.7 12.8 x 8.4 14.3 x 8.7 | 12.8 x 8.3 12.9 x 7.3 12.6 x 8.3 12.2 x 7.7 13.5 x 7.5 |
| 473 | 12.3 x 8.7 12.2 x 8.4 12.6 x 8.0 12.3 x 8.3 12.5 x 7.7 <u>12.3 x 7.8</u> 12.0 x 7.8 | 12.5 x 7.8 12.8 x 8.6 12.0 x 8.0 12.3 x 8.0 11.7 x 7.5 12.6 x 8.0 |
| 474 | Broken x x | Broken x x x |
| 476 | 9.0 x 7.5 13.5 x 8.6 13.5 x 8.6 11.7 x 7.8 13.1 x 8.6 12.9 x 8.0 | 12.8 x 8.1 13.2 x 8.3 12.6 x 7.5 12.5 x 8.0 12.8 x 7.5 12.0 x 8.0 |
| 479 | 13.8 x 7.7 14.1 x 7.8 14.3 x 7.5 13.4 x 6.5 | 13.1 x 7.5 13.1 x 8.0 13.5 x 7.1 12.0 x 7.8 14.0 x 7.2 |
| 480 | 8.3 x 8.3 9.6 x 8.6 12.5 x 8.3 12.0 x 8.3 12.6 x 8.0 11.7 x 8.1 | 11.9 x 8.3 11.6 x 7.5 12.3 x 8.7 10.5 x 7.4 11.3 x 8.1 11.3 x 6.8 |
| 481 | 12.3 x 7.5 13.5 x 8.3 13.1 x 8.0 12.0 x 7.5 | 13.5 x 7.1 <u>8.1 x 12.9</u> 12.5 x 11.1 13.5 x 8.4 |
| 482 | 12.8 x 7.1 13.7 x 8.3 13.2 x 7.7 14.7 x 8.0 14.1 x 6.3 | 14.3 x 7.7 13.8 x 7.5 15.0 x 8.0 13.1 x 7.8 13.5 x 8.0 |
| 490 | 13.5 x 7.8 13.5 x 7.4 13.4 x 6.5 14.0 x 8.0 | 14.9 x 6.8 15.0 x 8.7 13.5 x 7.2 12.5 x 7.7 13.8 x 8.3 |
| 512 | 9.8 x 8.3 11.0 x 7.7 10.8 x 8.0 10.8 x 8.1 | 10.5 x 8.6 11.3 x 7.5 11.0 x 7.2 11.3 x 7.4 10.5 x 6.8 <u>10.8 x 7.4</u>
<u>10.4 x 6.5</u> |
| 517 | 12.9 x 7.8 12.6 x 7.5 11.7 x 8.3 12.3 x 8.0 12.0 x 7.5 | 12.8 x 7.5 12.0 x 7.1 12.0 x 7.2 12.8 x 7.7 12.2 x 7.8 12.5 x 7.5 |
| 549 | 12.3 x 7.5 12.8 x 6.8 12.5 x 6.8 13.5 x 7.8 | 13.1 x 7.8 12.5 x 7.2 13.7 x 8.4 12.9 x 8.1 12.9 x 7.4 |
| 556 | 13.8 x 8.3 13.4 x 7.5 13.5 x 7.8 12.8 x 7.4 | 14.0 x 7.1 14.1 x 6.5 13.7 x 7.8 |
| 557 | 11.7 x 6.8 13.4 x 7.2 12.5 x 7.8 12.6 x 7.5 12.0 x 8.3 | 13.5 x 8.3 13.2 x 8.0 13.8 x 8.3 14.3 x 8.6 13.5 x 8.9 |
| 558 | 12.5 x 9.0 13.5 x 8.7 13.1 x 8.7 13.5 x 8.0 13.7 x 7.8 | 13.1 x 8.0 12.8 x 8.1 13.2 x 8.0 12.6 x 7.5 12.3 x 8.0 11.4 x 7.9 |
| 566 | 11.8 x 8.0 12.0 x 7.8 12.3 x 8.3 13.8 x 7.5 | 12.0 x 6.8 13.7 x 7.7 13.2 x 7.9 13.1 x 6.9 12.8 x 7.1 13.5 x 7.2 |
| 570 | 12.2 x 8.1 13.7 x 7.5 12.8 x 7.4 13.2 x 8.1 13.7 x 8.3 13.1 x 8.4 | 13.1 x 8.0 12.3 x 8.7 13.5 x 8.6 |
| 577 | 13.5 x 7.2 12.5 x 8.0 13.4 x 8.0 12.9 x 8.4 | 14.0 x 7.7 14.1 x 7.7 13.5 x 7.5 15.0 x 8.1 |
| 578 | 13.1 x 8.0 14.1 x 7.2 14.3 x 7.5 | 14.3 x 8.3 14.0 x 7.8 13.7 x 6.9 14.1 x 7.2 |
| 580 | 14.0 x 7.5 13.5 x 7.8 13.5 x 7.5 13.2 x 6.9 | 12.2 x 7.7 12.3 x 7.8 12.5 x 7.5 12.8 x 7.5 13.2 x 7.2 |
| 584 | 13.2 x 7.4 13.4 x 7.2 14.3 x 7.2 13.8 x 7.5 14.0 x 7.5 | |

Sceloporus occidentalis
SIZE OF EGGS IN OVIDUCT

LEFT

RIGHT

LIZARD NO

SIZE IN mm.

589 12.8 x 7.5 13.1 x 8.0 12.5 x 8.3 13.7 x 8.1 14.0 x 7.4
595 13.8 x 8.1 13.1 x 6.8 12.0 x 7.2
621 13.1 x 7.2 13.5 x 6.8 13.4 x 7.2
623 14.4 x 8.3 14.7 x 7.5 14.1 x 8.3 14.0 x 7.5
629 14.3 x 8.3 13.7 x 7.1

$N = 149$

$\Sigma X = 1918.9 \times 1155.0$

$\bar{X} = 12.9 \times 7.8 \text{ mm}$

SIZE IN mm.

13.5 x 8.0 13.5 x 8.0 13.5 x 7.2 13.5 x 7.8
12.2 x 8.3 12.8 x 7.7 Ruptured 12.2 x 8.0
13.8 x 6.6 13.2 x 6.6 12.6 x 6.8
13.2 x 7.5 12.8 x 8.1 14.3 x 8.1 14.3 x 7.7
15.3 x 8.0 14.7 x 8.4 14.0 x 7.5

$N = 155$

$\Sigma X = 1982.1 \times 1196.2$

$\bar{X} = 12.8 \times 7.8 \text{ mm}$

$N = 304$

$\Sigma X = 3901.0 \times 2351.2$

$\bar{X} = 12.8 \times 7.7 \text{ mm}$

Range = 8.3 x 5.7 mm To 15.3 x 9.0 mm

Sceloporus occidentalis

OVA WITH YOLK

LEFT OVARY

RIGHT OVARY

NUMBER OF OVA

1 1

2 1

3 11

4 ~~||||~~ ||

5 ~~||||~~ || 1

6 ~~||||~~ ||

7 1

8 111

9

10

1

111

~~||||~~ || 1

~~||||~~ || 111

~~||||~~ || 1

11

11

1

Sceloporus occidentalis

FAT BODIES

⑦

| MONTH | ADULT | | IMMATURE | |
|-------|----------------------------|----------------------------|----------|---|
| | ♂
(65 ⁺ mm.) | ♀
(60 ⁺ mm.) | ♂ | ♀ |
| JAN. | | | | |
| FEB. | | | | |
| MAR. | | | | |
| APR. | | | | |
| MAY | | | | |
| JUN. | | | | |
| JUL. | | | | |
| AUG. | | | | |
| SEPT. | | | | |
| OCT. | | | | |
| NOV. | | | | |
| DEC. | | | | |

Sceloporus occidentalis Adult (60+ mm S-V)

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 6 | 1 | 11 |
| 7 | 1111 | 11 |
| 8 | 11 | 1 |
| 9 | 1111 | 1111 |
| 10 | 1111 | 1111 |
| 11 | 1111 | 1111 |
| 12 | 11111111 | 1111 |
| 13 | 1111111111 | 1111111111 |
| 14 | 111111 | 11111111 |
| 15 | 11111111 | 1111111111 |
| 16 | 1111111111 | 1111 |
| 17 | 111111 | 11111111 |
| 18 | 11111111 | 11111111 |
| 19 | 111111 | 1111 |
| 20 | 11 | 111111 |
| 21 | 1111 | 1111 |
| 22 | 1111 | 1111 |
| 23 | 1111 | 1111 |
| 24 | 11 | 1 |
| 25 | 1111 | 11 |
| 26 | 1 | 1 |
| 27 | 1 | 1 |
| 28 | | 11 |
| 29 | | 1 |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | 1 |
| 36 | | |

Sceloporus occidentalis Immature

| No. | Left ovary | Right ovary |
|-----|------------|-------------|
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 3 | | |
| 4 | | |



Sceloporus occidentalis Adult ♀ (60+ mm S-V)

| | B | B1 | B2 | B3 |
|--------|---|-----|----|----|
| Jan | | | | |
| Feb | | | | |
| Mar 1 | | | | |
| Apr | | ≡ | | |
| May 11 | | ≡ I | | |
| Jun | | ≡ | | |
| Jul | | | I | I |
| Aug | | | I | |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |



Sceloporus occidentalis Immature ♀

| | B | B1 | B2 | B3 |
|-----|---|----|----|----|
| Jan | | | | |
| Feb | | | | |
| Mar | | | | |
| Apr | | | | |
| May | | | | |
| Jun | | | | |
| Jul | | | | |
| Aug | | | | |
| Sep | | | | |
| Oct | | | | |
| Nov | | | | |
| Dec | | | | |



SECRET

SCELOPORUS ORCUTT

Potential Breeders, Sceloporus orcutti ♂♂ (90+mm, S-V)

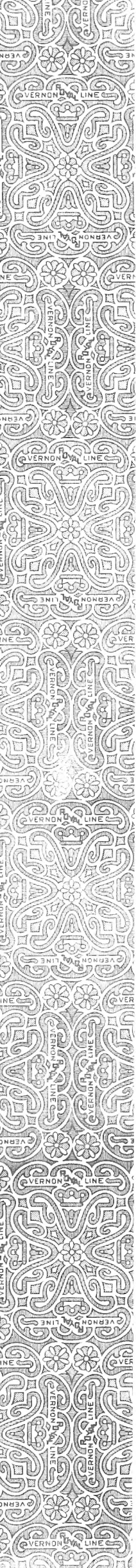
(smallest ♂ = 92 mm)

(largest ♂ = 115 ..)

| Date | # ♂ | No ♂ | Total | % ♂ |
|----------|-----|------|-------|-----|
| Aug '58 | 3 | 1 | 4 | 75 |
| Sept. | 0 | 2 | 2 | 0 |
| Jan. '59 | 0 | 2 | 2 | 0 |
| Feb. | | | 0 | |
| Mar. | 0 | 1 | 1 | 0 |
| Apr. | 0 | 2 | 2 | 0 |
| May | 3 | 0 | 3 | 100 |
| June | 2 | 0 | 2 | 100 |
| July | 10 | 2 | 12 | 84 |
| Aug. | 7 | 3 | 10 | 70 |
| Mar. '60 | 0 | 3 | 3 | 0 |
| Apr. | 2 | 0 | 2 | 100 |
| Jan. '61 | 0 | 3 | 3 | 0 |
| Feb. | 0 | 6 | 6 | 0 |
| Mar. | 0 | 10 | 10 | 0 |
| Apr. | 7 | 5 | 12 | 58 |
| May | 5 | 1 | 6 | 83 |
| June | 12 | 0 | 12 | 100 |
| July | | | 0 | |
| Aug. | 1 | 0 | 1 | 100 |
| Sept. | 0 | 2 | 2 | 0 |
| Mar. '62 | 0 | 1 | 1 | 0 |
| Apr. | 1 | 0 | 1 | 100 |
| May | 2 | 0 | 2 | 100 |

| Totals, 1958-1961 | | | | |
|-------------------|-----|------|-------|-----|
| Month | # ♂ | No ♂ | Total | % ♂ |
| Jan. | 0 | 5 | 5 | 0 |
| Feb. | 0 | 6 | 6 | 0 |
| Mar. | 0 | 14 | 14 | 0 |
| Apr. | 9 | 7 | 16 | 56 |
| May | 8 | 1 | 9 | 89 |
| June | 14 | 0 | 14 | 100 |
| July | 10 | 2 | 12 | 84 |
| Aug. | 11 | 4 | 15 | 73 |
| Sept. | 0 | 4 | 4 | 0 |
| | | | 95 | |

| Totals, 1958-1962 | | | | |
|-------------------|-----|------|-------|-----|
| Month | # ♂ | No ♂ | Total | % ♂ |
| Jan. | 0 | 5 | 5 | 0 |
| Feb. | 0 | 6 | 6 | 0 |
| Mar. | 0 | 15 | 15 | 0 |
| Apr. | 10 | 7 | 17 | 59 |
| May | 10 | 1 | 11 | 91 |
| Jun | 14 | 0 | 14 | 100 |
| July | 10 | 2 | 12 | 84 |
| Aug | 11 | 4 | 15 | 73 |
| Sept. | 0 | 4 | 4 | 0 |
| Total | | | 99 | |



R-371

STEEL BACKPLATE

S. E. & M. VERNON, INC.

U. S. A.

